

RECORD OF EVENTS

School of Historical Studies

September 26

Modern International Relations Seminar +
Informal Group Discussion

September 27

Lunchtime Colloquia Series + *First Term Introductions* + **Angelos Chaniotis**, Professor, School of Historical Studies

October 1

Art History Seminar + *First Term Introductions* + **Yve-Alain Bois**, Professor in the School of Historical Studies

October 2

Medieval Studies Seminar + *First Term Introductions* + **Patrick J. Geary**, Andrew W. Mellon Professor, School of Historical Studies

October 3

Near Eastern Studies Seminar + *Reading the Quran Backwards: Some Hypotheses on a Seventeenth-Century Manuscript* + **Pier Mattia Tommasino**, Columbia University; Member, School of Historical Studies

Modern International Relations Seminar +
Informal Group Discussion

October 4

Lunchtime Colloquia Series + *The Mao Badge Fad: How a State-Supported Consumer Fad Undermined a Revolution* + **Karl Gerth**, University of California, San Diego; Member, School of Historical Studies

Early Modern Europe Seminar + *The Medieval/Early Modern Divide along the Franco-Spanish Border* + **Francesca Trivellato**, Professor, School of Historical Studies

October 8

Art History Seminar + *On Duccio's Maesta* + **Eric Palazzo**, Université de Poitiers; Member, School of Historical Studies

Brown Bag Lunch Series, Department and Program in Near Eastern Studies, Princeton University + *Qadi Ja'far and the Revival of Zaydi Islam in Sixth/Twelfth-Century Yemen* + **Scott Lucas**, The University of Arizona; Member, School of Historical Studies

October 9

Ancient Studies Seminar + *Many Funny Things Happened on the Way to the Forum: Graffiti from the City Park of Aphrodisias* + **Angelos Chaniotis**, Professor, School of Historical Studies

October 10

Near Eastern Studies Seminar + *Medinan Verses in a Meccan Sura or Exegetical Glosses? The Case of Quran 91* + **Tommaso Tesei**, Van Leer Jerusalem Institute; Member, School of Historical Studies

Modern International Relations Seminar +
Informal Group Discussion

October 11

Lunchtime Colloquia Series + *Why Gibbon Was Wrong; The Case for 472 and the "Fall" of Rome* + **Michele Salzman**, University of California, Riverside; Member, School of Historical Studies

October 12

IAS Friends Talk + *Uncovering Eighty Years of Research into the Near and Middle East at the Institute for Advanced Study* + **Sabine Schmidtke**, Professor, School of Historical Studies

October 15

East Asian Studies Seminar + *Another Monetary Economy: A History of Chinese Currencies* + **Akinobu Kuroda**, The University of Tokyo; Member, School of Historical Studies

October 16

Ancient Studies Seminar + *Aristotle on Dramatic Katharsis* + **Pierre Destrée**, Seeger Center for Hellenic Studies, Princeton University

October 17

Art History Public Seminar + *The Unbearable Lightness of Whiteness: Racism and Medievalism in the Architecture of Prewar Los Angeles* + **Alison Perchuk**, The California State University, Channel Islands; Member, School of Historical Studies

Near Eastern Studies Seminar + *Shi'izing Iran— with Sunni Occult Science* + **Matthew Melvin-Koushki**, University of South Carolina; Visitor, School of Historical Studies

Modern International Relations Seminar +
Informal Group Discussion

October 18

Lunchtime Colloquia Series + *Landscapes of St. Gregory: Topography and Hagiography in Medieval Central Italy* + **Alison Perchuk**, The California State University, Channel Islands; Member, School of Historical Studies

Early Modern Europe Seminar + *Shared Burdens: Mutuality, Governance Constructs, and Third-Party Enforcement in Early Modern Europe; The Case of General Averages in the Netherlands (Sixteenth and Seventeenth Centuries)* + **Sabine Go**, Vrije Universiteit Amsterdam; Member, School of Historical Studies

October 22

Art History Seminar + *On The Concept of the "Tragic" Image in Byzantine Illustrated Manuscripts* + **Benjamin Anderson**, Cornell University; Member, School of Historical Studies

October 24

Modern International Relations Seminar +
Informal Group Discussion

October 25

Lunchtime Colloquia Series + *Rameau's "Sensationalist Conversion" Revisited* + **Nathan Martin**, University of Michigan; Member, School of Historical Studies

Near Eastern Studies Seminar + *A Little Bit More than Just Bindings* + **Nuria de Castilla**, École Pratique des Hautes Études, Paris

October 29

East Asian Studies Seminar + *Reading, Rhyming, and Recursion: Considering the Function of Print in Fourteenth-Century Japan* + **Brian Steininger**, Princeton University; Member, School of Historical Studies

October 30

Medieval Studies Seminar + *Experiencing Sanctity and Community in Byzantine North Africa* + **Ralf Bockmann**, Deutsches Archäologisches Institut, Rome; Member, School of Historical Studies

October 31

Near Eastern Studies Seminar + *Making the Self: Death and Individuality in Early Modern Ottoman Society* + **Nükhet Varlık**, Rutgers University in Newark and New Jersey Institute of Technology; Member, School of Historical Studies

Modern International Relations Seminar +
Informal Group Discussion

November 1

Lunchtime Colloquia Series + *Historical Reading Practices and the Limitations of Evidence* + **Earle Havens**, Johns Hopkins University; Member, School of Historical Studies

Early Modern Europe Seminar + *Catalunya and Beyond: Sex and Priestly Masculinities in Late Medieval Europe* + **Michelle Armstrong-Partida**, The University of Texas at El Paso; Member, School of Historical Studies

November 5

Art History Seminar + *On The Evolution of Church Buildings in the Byzantine North* + **Ralf Bockmann**, Deutsches Archäologisches Institut, Rome; Member, School of Historical Studies

East Asian Studies Seminar + *Buddhism and the Chinese Discovery of Religion* + **Stephen R. Bokenkamp**, Arizona State University; Member, School of Historical Studies

November 6

Near Eastern Studies Seminar + *How Many Laws Are in the Quran? Answers from Zaydi Yemen* + **Scott Lucas**, The University of Arizona; Member, School of Historical Studies

November 7

Modern International Relations Seminar + Informal Group Discussion

November 8

Lunchtime Colloquia Series + *The Protection of Socialist Property under Stalin: The Voices of "Thieves"* + **Juliette Cadiot**, École des Hautes Études en Sciences Sociales, Paris; Member, School of Historical Studies

Seminar (in cooperation with Princeton University) + *The Arid Negev Highlands (Southern Israel) in the Iron Age: The Impact of the Exact and Life Sciences* + **Israel Finkelstein**, Tel Aviv University

November 9

Lecture + *Jerusalem in Biblical Times (ca. 1350–100 B.C.E.): Comments on Archaeology and History* + **Pierre Destrée**, Seeger Center for Hellenic Studies, Princeton University; **Israel Finkelstein**, Tel Aviv University

Medieval Studies Seminar + *The Old English Genesis, the Cotton Genesis, and the Tournian Bibles* + **Seiichi Suzuki**, Kansai Gaidai University; Member, School of Historical Studies

November 12

East Asian Studies Seminar + 一: *The Question of the One and the Many in Historical Analysis* + **Lydia Liu**, Columbia University; Member, School of Historical Studies

November 13

Ancient Studies Seminar + *The Organization of the Construction Industry in Classical Athens* + **Cristina Carusi**, The University of Texas at Austin; Member, School of Historical Studies

November 14

Modern International Relations Seminar + Informal Group Discussion

November 15

Lunchtime Colloquia Series + *Great Expectations: Genealogy, History, and Eschatology in the European Middle Ages* + **Hans Hummer**, Wayne State University; Member, School of Historical Studies

Early Modern Europe Seminar + *Hernando Colón's Cosmography* + **Seth Kimmel**, Columbia University; Member, School of Historical Studies

November 20

Medieval Studies Seminar + *Workshop on Genealogical Images* + **Hans Hummer**, Wayne State University; Member, School of Historical Studies

November 26

Art History Seminar + *On Freud's Misreading of Leonardo's Ego* + **Johannes Endres**, University of California, Riverside

November 29

Lunchtime Colloquia Series + *Empire, Ecology, and Plague: Rethinking the Second Pandemic (ca. 1340s–ca. 1840s)* + **Nükhet Varlık**, Rutgers University in Newark and New Jersey Institute of Technology; Member, School of Historical Studies

Early Modern Europe Seminar + *Reading Readers Writing about Reading: The Information Cultures of John Dee and Gabriel Harvey* + **Earle Havens**, Johns Hopkins University; Member, School of Historical Studies

December 3

Art History Seminar + *On "Metapainting" in Byzantium and Trecento Italy* + **Giulia Puma**, Université de Nice Sophia Antipolis, Université Côte d'Azur; **Maria Alessia Rossi**, Princeton University

East Asian Studies Seminar + *Rethinking Japanese Imperialism, 1930s–1970s: Lessons from Imperial and Post-imperial Japan* + **Louise Young**, University of Wisconsin–Madison; Member, School of Historical Studies

December 4

Ancient Studies Seminar + *Auditory Culture, Music, and Rhetoric in Dionysius of Halicarnassus* + **Sean Gurd**, University of Missouri–Columbia; Member, School of Historical Studies

The Historical Studies–Social Science Library Book Conversation + *Salvaging the Zaydi Manuscript Tradition: The Fate of Private and Family Libraries in Twentieth-Century Yemen* + **Sabine Schmidtke**, Professor, School of Historical Studies

Medieval Studies Seminar + **Cosmin Alin Popa-Gorjanu**, University of Alba Iulia; Member, School of Historical Studies

December 5

Near Eastern Studies Seminar + *Reading and Refinement: Arabic Conduct Pedagogy, 1870s–1920s* + **Marilyn Booth**, University of Oxford; Member, School of Historical Studies

Modern International Relations Seminar + Informal Group Discussion

December 6

Lunchtime Colloquia Series + *Heraclius's War Propaganda and the Quran's Promise of Reward for Dying in Battle* + **Tommaso Tesei**, Van Leer Jerusalem Institute; Member, School of Historical Studies

Early Modern Europe Seminar + *Reading the Quran Backwards: Orientalism, Science, and Philology in Seventeenth-Century Florence* + **Pier Mattia Tommasino**, Columbia University; Member, School of Historical Studies

December 6–7

Shii Studies Research Program Conference: Yemeni Manuscript Collections and Zaydi Studies + Opening Remarks + **Hassan Farhang Ansari**, Long-term Member, School of Historical Studies; **Sabine Schmidtke**, Professor, School of Historical Studies + *The Origins of the Adhān: Reports from the Family of 'Alī* + **Nebil A. Husayn**, University of Miami + *Abraham and the Search for Charisma and Legitimacy in Zaydi Discourses* + **Maher Jarrar**, American University of Beirut + *Al-Imām al-Rassī's Theory of the Imamate* + **Rodrigo Adem**, El Colegio de México + *New Sources for the History of Zaydism in Iran* + **Hassan Farhang Ansari**, Long-term Member, School of Historical Studies + *New Zaydi Manuscripts in Berlin and Their Traces of Ownership* + **Christoph Rauch**, Staatsbibliothek zu Berlin–Preussischer Kulturbesitz + *Towards a History of Libraries in Yemen* + **Sabine Schmidtke**, Professor, School of Historical Studies + *Their Hands before Our Eyes: Strategies of Mise en Texte in Yemeni Manuscripts* + **Valentina Sagaria-Rossi**, Biblioteca dell'Accademia Nazionale dei Lincei e Corsiniana, Rome + *A Tiny and Forgotten Library of Zaydi Manuscripts* + **Anne Regourd**, Centre National de la Recherche Scientifique, UMR 7192, Associée, Paris + *Arguing over the Boundaries of the Interpretive Community in al-Mujzi fi Usul al-Fiqh* + **Devin J. Stewart**, Emory University + *Islamic Theology in Thirty Topics: A Yemeni-Zaydi Tradition Preserved in the Biblioteca Ambrosiana* + **Scott Lucas**, The University of Arizona; Member, School of Historical Studies + *Humayd b. Ahmad al-Muḥalli's Framing of Theology in al-Kawākib al-durriyya* + **Jan Thiele**, Consejo Superior de Investigaciones Científicas, Madrid + *A Contribution to the Question: Was Ibn al-Wazīr the Founder of a School that Set off the "Summation of Zaydism"?* *Muḥammad b. Ibrāhīm al-Wazīr (d. 840/1436) and Sālih b. Mahdī al-Maqbālī (d. 1108/1696) on Theological and Legal Diversity* + **Damaris Wilmers**, National Records and Archives Authority, Muscat, Oman + *Imam al-Qasim b. Muhammad's (d. 1029) Polemical Response to a Sufi Attack (K. Half anf al-afik fi jawabihī 'ala al-Kamil al-mutadarik)* + **Bernard Haykel**, Princeton University + *Interpretive and Governing Authority in the Zaydi imāma* + **Brinkley M. Messick**, Columbia University + *Qasimi Yemen, a View from the Red Sea Coast* + **Nancy Um**, Binghamton University, The State University of New York + *Shifting Positions on the Hādawī Family Waqf: Yemeni Zaydi Fiqh*,

Polemics, and Decrees since al-Hādī until Today ♦
Eirik Hovden, University of Bergen, Norway ♦ *Zaydī Arguments against Muḥammad b. ‘Alī al-Shawkānī’s Fatwa on the Worldly Judgment of Jewish Orphans and the Legitimacy of the Late Qāsimī Imamate* ♦ **Kerstin Hünefeld**, Freie Universität Berlin and Herbert D. Katz Center for Advanced Judaic Studies, University of Pennsylvania ♦ *Borders in Arabia: Hijazi Responses to Zaydī Politics and Doctrine* ♦ **Zacky Khairul Umam**, Freie Universität Berlin and Johns Hopkins University

December 10

Art History Seminar ♦ *On Marble Bust Portraits of the Renaissance* ♦ **Jeanette Kohl**, University of California, Riverside; Member, School of Historical Studies

East Asian Studies Seminar ♦ *Illustrating Knowledge: Mundane Reading in Late Ming China* ♦ **Yuming He**, University of California, Davis; Member, School of Historical Studies

December 11

Ancient Studies Seminar ♦ *How Rome Survived the Gothic Wars* ♦ **Michele Salzman**, University of California, Riverside; Member, School of Historical Studies

Art History Lecture Series ♦ *The Barbarian Invasions: A Genealogy of the History of Art* ♦ **Eric Michaud**, Ecole des Hautes Études en Sciences Sociales

December 12

Near Eastern Studies Seminar ♦ *Sultan al-Ghawri’s Salons and the Question of Confessional Ambiguity at the Mamluk Court* ♦ **Christian Mauder**, Universität Leipzig; Member, School of Historical Studies

Modern International Relations Seminar ♦ Informal Group Discussion

December 13

Lunchtime Colloquia Series ♦ *Orphans of History: Religious Minorities in Southern Ireland, 1922–68* ♦ **Eugenio Biagini**, University of Cambridge; Member, School of Historical Studies

December 17

Art History Seminar ♦ *Second Report on The Concept of the “Tragic” Image in Byzantine Illustrated Manuscripts* ♦ **Benjamin Anderson**, Cornell University; Member, School of Historical Studies

Near Eastern Studies ♦ Project Presentation ♦ *The Intellectual, Social, and Cultural History of the Arab and Islamic World in Transregional Perspective, Sixteenth to Eighteenth Centuries* ♦ **Christian Mauder**, Universität Leipzig; Member, School of Historical Studies

December 18

Medieval Studies Seminar ♦ *The Concept of Energy in Liturgy and Art* ♦ **Eric Palazzo**, Université de Poitiers; Member, School of Historical Studies

December 19

Modern International Relations Seminar ♦ Informal Group Discussion

December 20

Lunchtime Colloquia Series ♦ *Death from Laughter, Female Hysteria, and Early Cinema* ♦ **Maggie Hennefeld**, University of Minnesota, Twin Cities; Member, School of Historical Studies

January 17

Lunchtime Colloquia Series ♦ *Second Term Introductions* ♦ **Angelos Chaniotis**, Professor, School of Historical Studies

Medieval Studies Seminar ♦ *Second Term Introductions* ♦ **Patrick J. Geary**, Andrew W. Mellon Professor, School of Historical Studies

January 22

Medieval Studies Seminar ♦ **Warren Brown**, California Institute of Technology; Member, School of Historical Studies

January 24

Lunchtime Colloquia Series ♦ *Francesco Redi’s Experiments on the Generation of the Insects (1668)—a New Reading* ♦ **Pier Mattia Tommasino**, Columbia University; Member, School of Historical Studies

Early Modern Europe Seminar ♦ *A Missed Encounter: Burckhardt and Economic Historians* ♦ **Francesca Trivellato**, Professor, School of Historical Studies

January 28

Art History Seminar ♦ *Second Term Introductions* ♦ **Yve-Alain Bois**, Professor in the School of Historical Studies

East Asian Studies Seminar ♦ *Unending Capitalism: State Consumerism and the Negation of the Chinese Socialist Revolution* ♦ **Karl Gerth**, University of California, San Diego; Member, School of Historical Studies

January 29

Medieval Studies Seminar ♦ **Eric Palazzo**, Université de Poitiers; Member, School of Historical Studies

January 30

Art History Public Seminar ♦ *Hic Est Homo Platonis: Embodied Platonism in Renaissance Art* ♦ **Jeanette Kohl**, University of California, Riverside; Member, School of Historical Studies

Modern International Relations Seminar ♦ Informal Group Discussion

January 31

Lunchtime Colloquia Series ♦ *Melkite Christians between Byzantium, Muslims, and Crusaders* ♦ **Johannes Pahlitzsch**, Johannes Gutenberg-Universität Mainz; Member, School of Historical Studies

Early Modern Europe Seminar ♦ *Marketing and Social Structure in Premodern Xinjiang (East Turkestan)* ♦ **Eric Schuessel**, University of Montana; Member, School of Historical Studies

February 5

Ancient Studies Seminar ♦ *The Sound of Greek Religion* ♦ **Angelos Chaniotis**, Professor, School of Historical Studies

Medieval Studies Seminar ♦ **Noa Turel**, University of Alabama at Birmingham; Member, School of Historical Studies

History of Science Lecture Series ♦ *Twenty Years Is a Long Time* ♦ **Sophia Roosth**, Harvard University

February 6

Near Eastern Studies Seminar ♦ *“Akhhbar al-fakhhk,” a Forged Text for Propaganda Purposes* ♦ **Hassan Farhang Ansari**, Long-term Member, School of Historical Studies

Modern International Relations Seminar ♦ Informal Group Discussion

February 7

Lunchtime Colloquia Series ♦ *The Affairs of Mr. Apollonius: Papyrus Documents from Second-Century C.E. Egypt* ♦ **Thomas Kruse**, Österreichische Akademie der Wissenschaften; Member, School of Historical Studies

Early Modern Europe Seminar ♦ *Humanist Republicanism: Toward a New Paradigm* ♦ **Gabriele Pedullà**, Università degli Studi Roma Tre; Member, School of Historical Studies

February 11

Art History Seminar ♦ *On the Iconology of Kairos* ♦ **Barbara Baert**, Katholieke Universiteit Leuven; Member, School of Historical Studies

East Asian Studies Seminar ♦ *Marketing and Social Structure in Qing Xinjiang* ♦ **Eric Schuessel**, University of Montana; Member, School of Historical Studies

February 12

Medieval Studies Seminar ♦ *Low-Cost Charters and Micro-politics: Documenting the Political Everyday between France and the Empire (Twelfth to Fifteenth Centuries)* ♦ **Paul Bertrand**, Université Catholique de Louvain; Member, School of Historical Studies

February 13

Modern International Relations Seminar ♦ Informal Group Discussion

February 14

Lunchtime Colloquia Series + *The Return of the Owl: The Renaissance Rediscovery of Athenian Democracy* + **Gabriele Pedullà**, Università degli Studi Roma Tre; Member, School of Historical Studies

February 19

Ancient Studies Seminar + “*A Gift to the Goddess*”: *Worship, Law, and Economy at the Sanctuaries of Roman Macedonia* + **Maria Youni**, Democritus University of Thrace; Member, School of Historical Studies

Medieval Studies Seminar + *Andronikos II and an-Nāṣir Muḥammad: Byzantine-Mamluk Relations and the Situation of Orthodox Christians under Mamluk Rule at the Beginning of the Fourteenth Century* + **Johannes Pahlitzsch**, Johannes Gutenberg-Universität Mainz; Member, School of Historical Studies

February 20

Modern International Relations Seminar + Informal Group Discussion

February 21

Lunchtime Colloquia Series + *Alas! Commemoration of the Dead in Roman Palmyra* + **Rubina Raja**, Aarhus University; Member, School of Historical Studies

Early Modern Europe Seminar + *Sites of Antiquarianism: Between Seville and San Lorenzo* + **Seth Kimmel**, Columbia University; Member, School of Historical Studies

February 25

East Asian Studies Seminar + *Twisted and Reeled: Silk in the Premodern World—a Comparison between China and Italy* + **Dagmar Schaefer**, Max-Planck-Institut für Wissenschaftsgeschichte; Member, School of Historical Studies

February 26

Medieval Studies Seminar + *More than Just Sex: Concubinous Unions in the Late Medieval Mediterranean* + **Michelle Armstrong-Partida**, The University of Texas at El Paso; Member, School of Historical Studies

History of Science Lecture Series + *After Math: Reasoning, Proving, and Computing in the Postwar United States* + **Stephanie A. Dick**, University of Pennsylvania

February 27

Near Eastern Studies Seminar + *Alexander's Gate against Gog and Magog and the Sixth-Century Byzantine-Sasanian Wars* + **Tommaso Tesei**, Van Leer Jerusalem Institute; Member, School of Historical Studies

Modern International Relations Seminar + Informal Group Discussion

February 28

Lunchtime Colloquia Series + *Bad Money Does Not Drive Out Good Money: Complementarity among Monies in Global History* + **Akinobu Kuroda**, The University of Tokyo; Member, School of Historical Studies

March 1

Art History Lecture Series + *Fluidity and Sedimentation in Rembrandt's "Christ Carrying the Cross"* + **Nicola Suthor**, Yale University

March 4

East Asian Studies Seminar + *Considering Citizenship in Imperial Chinese History* + **Hilde De Weerd**, Universiteit Leiden; Member, School of Historical Studies

March 5

Medieval Studies Seminar + *Consent and Affection: Problems for Medieval People and for Medievalists (Late Antiquity and Early Middle Ages)* + **Sylvie Joye**, Université de Lorraine, Nancy; Member, School of Historical Studies

History of Science Lecture Series + *Robocon Is Zazen: Psychology and Buddhism in Mori Masahiro's Robotics* + **Yulia Frumer**, Johns Hopkins University

March 6

Modern International Relations Seminar + Informal Group Discussion

March 7

Lunchtime Colloquia Series + *Al-Makin's Metamorphoses between Mamluk Egypt and Early Modern Europe* + **Martino Diez**, Università Cattolica del Sacro Cuore, Milan; Member, School of Historical Studies

Early Modern Europe Seminar + *Popular Politics in Early Modern Venice: The Arsenalotti's Protest of 1569* + **Maartje van Gelder**, University of Amsterdam; Member, School of Historical Studies

March 11

Art History Seminar + *On the Concept of Energy in Medieval Art* + **Eric Palazzo**, Université de Poitiers; Member, School of Historical Studies

March 12

Medieval Studies Seminar + *Ecclesiastical Architecture in Byzantine North Africa—Community, Liturgy, Veneration of Saints* + **Ralf Bockmann**, Deutsches Archäologisches Institut, Rome; Member, School of Historical Studies

March 13

Art History Public Seminar + *Matrix as Ornament: The Medieval Afterlife of Intaglios and the Retrospection of Function* + **Catherine Fernandez**, Princeton University

March 14

Lunchtime Colloquia Series + *Master of Love and Food: Fatherhood, Care, and Coercion in Late Antique and Early Medieval West* + **Sylvie Joye**, Université de Lorraine, Nancy; Member, School of Historical Studies

March 15

Epigraphic Friday + *Krateros: The IAS Squeeze Digitization Project* + **Aaron Hershkovitz**, Institute for Advanced Study + *The Evolving Format of Building Accounts* + **Cristina Carusi**, The University of Texas at Austin; Member, School of Historical Studies + *A New Greek Epigram from Teos and "Theognidea"* + **Andrej Petrovic**, University of Virginia, with **Mustafa Adak**, Antalya University + *Allusions to Greek Literature in Lycian Verse Inscriptions (CEG 177 and 888)* + **Brett Evans**, University of Virginia + *The Historian Philippos of Pergamon* + **Christopher Jones**, Harvard University and Institute for Advanced Study + *Ἀναγκαιότατος καιρός: The Greek Concept of "Crisis"* + **Angelos Chaniotis**, Professor, School of Historical Studies + *Aemilius Paulus and Roman Politics in Greece: Notes on an Inscription from Gonnoi* + **Maria Youni**, Democritus University of Thrace; Member, School of Historical Studies + *The Honorific Decree for Karzoazos from Olbia* + **Emyr Dakin**, The Graduate Center, The City University of New York + *A New Epitaph from Aphrodisias* + **Giorgos Tsolakis**, Institute for the Study of the Ancient World, New York University + *A Hydreion for the Erythraean Sibyl—a New Reading of IK Erythrai II 225* + **Saskia Kerschbaum**, Ludwig-Maximilians-Universität München + *Stranded in Lycia: A Vow for Neptune* + **Sophia Bönisch-Meyer**, Kommission für Alte Geschichte und Epigraphik + *Inscriptions from Jerash* + **Rubina Raja**, Aarhus University; Member, School of Historical Studies + *A New Greek Inscription from South Arabia* + **Glen W. Bowersock**, Professor Emeritus, School of Historical Studies

March 19

Ancient Studies Seminar + *Priests in Roman Palmyra* + **Rubina Raja**, Aarhus University; Member, School of Historical Studies

March 21

Lunchtime Colloquia Series + *Easter 1475: A Bloodbath, a Boy, and a Bust* + **Jeanette Kohl**, University of California, Riverside; Member, School of Historical Studies

March 26

Ancient Studies Seminar + *The Archive of the Strategos Apollonios and Some Peculiar Features of Letter Writing in Roman Egypt* + **Thomas Kruse**, Österreichische Akademie der Wissenschaften; Member, School of Historical Studies

Medieval Studies Seminar + **Cosmin Alin Popa-Gorjanu**, University of Alba Iulia; Member, School of Historical Studies

March 27

Modern International Relations Seminar + Informal Group Discussion

March 28

Lunchtime Colloquia Series + “Your Rulers Are Slaves, the Sons of Unbelievers”: Genealogical Competition in the Eastern Mediterranean of the Sixteenth Century + **Christian Mauder**, Universität Leipzig; Member, School of Historical Studies

March 29

Art History Lecture Series + *Titan’s Bride Stripped Bare* + **Maria Loh**, City University of New York

April 1

East Asian Studies Seminar + *Lawmaking in China: From the End of the Cultural Revolution to the Present* + **Ji Li**, Rutgers Law School; Member, School of Social Science

April 2

History of Science Lecture Series + *Race by Numbers: Statistics and Race in Interwar British India* + **Projit Bihari Mukharji**, University of Pennsylvania

April 3

Near Eastern Studies Seminar + *Melkites under the Rule of Sultan an-Nāṣir Muḥammad and an-Nuwayrī’s Account of the Fire of Cairo in 721/1321* + **Johannes Pahlitzsch**, Johannes Gutenberg-Universität Mainz; Member, School of Historical Studies

Modern International Relations Seminar + Informal Group Discussion

April 4

Lunchtime Colloquia Series + *The Color of Moral Thought: How Self-Determination Was Written into Human Rights* + **Lydia Liu**, Columbia University; Member, School of Historical Studies

Early Modern Europe Seminar + *Europa Virgo, the Indies, and an Early Modern Family Romance* + **Carina Johnson**, Pitzer College; Member, School of Historical Studies

April 4–5

S. T. Lee Public Lecture + *Stalin at War* + **Stephen Kotkin**, Princeton University + S. T. Lee Workshop + *Informal Discussion on the Topic of the Lecture* + **Jonathan Haslam**, George F. Kennan Professor, School of Historical Studies + **John Barber**, University of Cambridge + **Stephen Kotkin**, Princeton University + **Hiroaki Kuromiya**, Indiana University + **Charles S. Maier**, Harvard University + **Marie Mendras**, School of International Affairs, Sciences Po and Centre National de la Recherche Scientifique, Paris + **Rachel Polonsky**, University of Cambridge + **Silvio Pons**, Scuola Normale Superiore, Rome + **Edward A. Rees**, University of Birmingham + **Jane Taubman**, Amherst

College + **William Taubman**, Amherst College + **Amir Weiner**, Stanford University + **Valery T. Youngblood**, Vyatka State University, Kirov

April 8

East Asian Studies Seminar + *Chinese Theories of Literary Creativity* + **Wendy Swartz**, Rutgers, The State University of New Jersey

April 9

Ancient Studies Seminar + *Plutarch and the Periclean Erga* + **Cristina Carusi**, The University of Texas at Austin; Member, School of Historical Studies

Medieval Studies Seminar + *Landscape Sanctified: Topographic Miracles and Monasticism in Medieval Italy; Two Case Studies from the “Dialogues” of Gregory the Great* + **Alison Perchuk**, The California State University, Channel Islands; Member, School of Historical Studies

April 10

Near Eastern Studies Seminar + *Al-Andalus and Reconquista in Current Spanish Political and Academic Context* + **Alejandro García-Sanjuán**, Universidad de Huelva; Member, School of Historical Studies

Modern International Relations Seminar + Informal Group Discussion

April 11

Lunchtime Colloquia Series + *Imagining Machines, Reimagining Europe in the World, 1300–1600* + **Noa Turel**, University of Alabama at Birmingham; Member, School of Historical Studies

Early Modern Europe Seminar + *Orientalism, Science, and Linguistics in Seventeenth-Century Florence: Chapter 1, Reading the Quran Backwards* + **Pier Mattia Tommasino**, Columbia University; Member, School of Historical Studies

April 16

History of Science Lecture Series + *The Restless Machinery of Life* + **Jessica Riskin**, Stanford University

April 23–24

Muslims & Manuscripts + April 23, Princeton University + *The Message and the Messengers* + **Tehseen Thaver**, Princeton University + April 24, Institute for Advanced Study + *The Praiseworthy One*, a Book Talk with Author Christiane Gruber + **Christiane Gruber**, University of Michigan

April 23

Medieval Studies Seminar + *King Lists and Genealogy* + **Hans Hummer**, Wayne State University; Member, School of Historical Studies

April 24

Art History Lecture Series + *Moroni’s Gray Grounds* + **David Young Kim**, University of Pennsylvania

April 25

Early Modern Europe Seminar + *Land and Conversion: New Frameworks for Colonial American Hymnody* + **Glenda Goodman**, University of Pennsylvania; Member, School of Historical Studies

May 10–11

Near Eastern Studies Workshop: Scribal Habits in Middle Eastern Manuscripts Workshop + Opening Remarks + **Sabine Schmidtke**, Professor, School of Historical Studies, and George A. Kiraz, Senior Research Associate, School of Historical Studies + *Connecting the Dots: Using Diaeresis as a Source of Information about Scribal Practices in Greek Papyri in Sixth-Century Egypt* + **Elizabeth Buchanan**, University of Findlay, Ohio + *Direct Copies as Test Cases in the Quest for Scribal Habits* + **Alan Taylor Farnes**, Brigham Young University + *The Niqqud in Medieval Judeo-Greek Manuscripts: Research Expectations vs. Scribal Practice* + **Julia G. Krivoruchko**, University of Cambridge + *The Second-Hand Scribe: A Unique Tosefta Fragment from the Levant, Its Intellectual Environment, and Its Influence* + **Binyamin Katzoff**, Bar-Ilan University + *Scribes and Their Habits in Eighth-Century Syria* + **Jonathan Loopstra**, University of Northwestern–St. Paul + *Organizing 1 Clement in Syriac and Coptic: Text Dividers in University Library Cambridge Add. MSS 1700, Berlin Staatsbibliothek Ms. or. fol. 3065, and Strasbourg Université copte 362–385* + **Dan Batovici**, Katholieke Universiteit Leuven + *Scribes and the Book of Revelation in Eastern New Testaments* + **T. C. Schmidt**, Yale University + “*We Are the Sum of Our Habits*”: Aggregate Scribal Habits of Whole Bible Manuscripts + **Michael Dormandy**, University of Cambridge + *Scribal Practice in Arabic Literary Papyri* + **Ursula Bees**, University of Cambridge + *Manuscripts of Arabic Popular Epics and Sīrat Sayf ibn Dhī Yazan* + *Scholarly Practices in Twelfth-Century Kashan: Fadl Allah al-Rawandi and His Role in the Transmission of al-Sharīf al-Murtada’s Ghurar al-fawa’id* + **Sabine Schmidtke**, Professor, School of Historical Studies, and **Hassan Farhang Ansari**, Long-term Member, School of Historical Studies + **Zuzana Gažáková**, Comenius University in Bratislava + *Presentation of Projects* + **Tommaso Tesei**, Van Leer Jerusalem Institute; Member, School of Historical Studies + **George A. Kiraz**, Senior Research Associate, School of Historical Studies + *Manuscript Production and Scribal Work-Rate in Fifteenth-Century Iran* + **Mihan Shiva**, Harvard Art Museums + *Inscribing Authority on the Books of Jurisprudence: Fatwās, Scribes, and Chief Jurisprudents in the Early Modern Ottoman Empire, Fifteenth–Eighteenth Centuries* + **H. Evren Sünnetçioğlu**, Central European University

May 14

Medieval Studies Seminar + *Of Parchment and Pollen: Tracing Agricultural, Economic, and Environmental Change in the Paleoeological and Historical Records of Medieval Italy* + **Ned Schoolman**, University of Nevada, Reno; Visitor, School of Historical Studies

May 30–31

Medievalist Renunion: Discussion of Past, Current, and Future Projects + **Patrick J. Geary**, Andrew W. Mellon Professor, School of Historical Studies + **Robert Bartlett**, University of St. Andrews + **Ottó S. Gecser**, Eötvös Loránd University + **Sara McDougall**, City University of New York + **Edward M. Schoolman**, University of Nevada, Reno + **Vlada Stankovic**, University of Belgrade + **Andrea Sterk**, University of Minnesota + **Vincent Debiais**, École des Hautes Études en Sciences Sociales, Paris

School of Mathematics

September 11

Vladimir Voevodsky Memorial Conference + *The Mathematical Work of Vladimir Voevodsky* + **Dan Grayson**, University of Illinois at Urbana-Champaign + *What Do We Mean by “Equal”* + **Pierre Deligne**, Professor Emeritus, School of Mathematics + *A¹-Algebraic Topology: Genesis, Youth, and Beyond* + **Fabien Morel**, Mathematisches Institut, Ludwig-Maximilians-Universität München + *On Voevodsky’s Univalence Principle* + **André Joyal**, Université du Québec à Montréal

September 12

Vladimir Voevodsky Memorial Conference + *Galois, Grothendieck, and Voevodsky* + **George Shabat**, Russian State University for the Humanities + *Univalent Foundations and the Equivalence Principle* + **Benedikt Ahrens**, University of Birmingham + *The Synthetic Theory of ∞ -Categories vs. the Synthetic Theory of ∞ -Categories* + **Emily Riehl**, Johns Hopkins University + *Voevodsky Proof of Milnor and Bloch-Kato Conjectures* + **Alexander Merkurjev**, University of California, Los Angeles + *Isotropic Motivic Category* + **Alexander Vishik**, University of Nottingham

September 13

Vladimir Voevodsky Memorial Conference + *Towards Elementary Infinity-Toposes* + **Michael Shulman**, University of San Diego + *Even Spaces and Motivic Resolutions* + **Michael Hopkins**, Harvard University + *Universal Chow Group of 0-Cycle and Nilpotence* + **Claire Voisin**, Collège de France + *A Search for an Algebraic Equivalence Analogue of Motivic Theories* + **Eric Friedlander**, University of Southern California

September 14

Vladimir Voevodsky Memorial Conference + *Univalence from a Computer Science Point-of-View* + **Dan Licata**, Wesleyan University + *Algebraic*

K-Theory, Combinatorial K-Theory, and Geometry + **Inna Zakharevich**, Cornell University + *On the Proof of the Conservativity Conjecture* + **Joseph Ayoub**, Universität Zürich + *Perverse Schubers and Semi-orthogonal Decompositions* + **Mikhail Kapranov**, Kavli Institute for the Physics and Mathematics of the Universe, University of Tokyo; Visiting Professor, School of Mathematics

September 20

Joint IAS/Princeton University Number Theory Seminar + *Eisenstein Ideal with Squarefree Level* + **Preston Wake**, Member, School of Mathematics
Working Seminar in Algebraic Number Theory

September 24

Computer Science/Discrete Mathematics Seminar I + *Four and a Half Proofs of a Product-Measure Version of the Erdős-Ko-Rado Theorem* + **Ehud Friedgut**, Weizmann Institute of Science

September 25

Variational Methods in Geometry Seminar + *Extremal Eigenvalue Problems and Free Boundary Minimal Surfaces in the Ball* + **Ailana Fraser**, The University of British Columbia; Member, School of Mathematics

Short talks by Postdoctoral Members + *Caustics of Fronts and the Arborealization Conjecture* + **Daniel Alvarez-Gavela**, Member, School of Mathematics + *The Min-Max Width of Unit Volume Three-Spheres* + **Lucas Coelho Ambrozio**, Member, School of Mathematics + *Invertible Objects in Chromatic Homotopy Theory* + **Irina Bobkova**, Member, School of Mathematics + *Min-Max Construction for Constant Mean Curvature Surfaces* + **Xin Zhou**, University of California, Santa Barbara; Member, School of Mathematics + *Analyticity Results for the Euler and Navier-Stokes Equations* + **Guher Camliyurt**, Member, School of Mathematics + *Comparing Measures of Complexity for Minimal Subvarieties* + **Alessandro Carlotto**, Eidgenössische Technische Hochschule Zürich; Member, School of Mathematics

September 26

Symplectic Dynamics Working Group + Orientation Meeting

Short talks by Postdoctoral Members + *The Modern Application of Separation of Variables* + **Gao Chen**, Member, School of Mathematics + *Geometry and Topology of Isoperimetric and Index One Minimal Surfaces* + **Celso dos Santos Viana**, Member, School of Mathematics + *Ramanujan Graphs and Golden Gates* + **Shai Evra**, Member, School of Mathematics + *Adventures in Monotone Complexity* + **Mika Göös**, Member, School of Mathematics + *The Optimal Transport Problem* + **Yash Jhaveri**, Eidgenössische Technische Hochschule Zürich; Member, School of Mathematics + *Homological Projective Geometry* + **Qingyuan Jiang**, Member, School of Mathematics

September 27

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Towards a p -adic Deligne-Lusztig Theory* + **Charlotte Chan**, Princeton University
Working Seminar in Algebraic Number Theory

September 28

Allen-Cahn/Ginzburg-Landau Reading Group
Reception to Honor Akshay Venkatesh

Short talks by Postdoctoral Members + *Renormalized Volume for Hyperbolic 3-Manifolds* + **Franco E. Vargas Pallete**, Member, School of Mathematics + *What I Learned about Pseudoholomorphic Quilts in the IAS Cafeteria (But Not at the Math Table)* + **Nathaniel Bottman**, Member, School of Mathematics + *Logarithmic Riemann-Hilbert Correspondences* + **Clemens Koppenteiner**, Member, School of Mathematics + *Minimal Surfaces and Geometry of the Space of Cycles* + **Yevgeny Liokumovich**, Member, School of Mathematics + *Minimal Surfaces and Geometry of the Space of Cycles* + **Yevgeny Liokumovich**, Massachusetts Institute of Technology; Member, School of Mathematics + *Monodromy Representations and Arithmetic* + **Daniel Litt**, Member, School of Mathematics

October 1

Computer Science/Discrete Mathematics Seminar I + *Oracle Separation of Quantum Polynomial Time and the Polynomial Hierarchy* + **Avishay Tal**, University of California, Berkeley

Seminar on Theoretical Machine Learning + *Structured Learning with Parsimony in Measurements and Computations: Theory, Algorithms, and Applications* + **Xingguo Li**, Princeton University

Short talks by Postdoctoral Members + *Pointwise Monotonicity of Heat Kernels* + **Ángel D. Martínez Martínez**, Member, School of Mathematics + *Singular Hodge Theory of Matroids* + **Jacob Matherne**, Member, School of Mathematics + *Minimal Hypersurfaces and Phase Transitions* + **Marco Aurelio Méndez Guaraco**, Member, School of Mathematics + *Probabilistically Checkable Proofs and the Graph Coloring Problem* + **Dor Yosef Minzer**, Member, School of Mathematics + *Regularity Lemmas and Other Extremal Results* + **Guy Moshkovitz**, Member, School of Mathematics + *Stability for Functional and Geometric Inequalities* + **Robin Neumayer**, Member, School of Mathematics + *Invariant Theory and Complexity* + **Viswambhara Makam**, Member, School of Mathematics

October 2

Variational Methods in Geometry Seminar + *Prescribing Scalar Curvature in High Dimension* + **Andrea Malchiodi**, Scuola Normale Superiore di Pisa + *On the Existence of Minimal*

Heegaard Splittings + **Daniel J. Ketover**, Princeton University; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Tensor Rank* + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

October 3

Short talks by Postdoctoral Members + *Proofs from Algorithms, Algorithms from Proofs* + **Pravesh Kothari**, Member, School of Mathematics + *Intrinsic Diophantine Approximation on S^3* + **Raphael Sebastian Steiner**, Member, School of Mathematics + *Contact Hypersurfaces and Mirror Symmetry* + **Saraswathi Venkatesh**, Member, School of Mathematics + *Zimmer's Conjecture for Co-compact Lattices in Simple Complex Lie Groups* + **Zhiyuan Zhang**, KTH Royal Institute of Technology, Stockholm; Member, School of Mathematics + *Getting Information from Higher-Dimensional Moduli Spaces in Floer Theory* + **Zhengyi Zhou**, Member, School of Mathematics

October 4

Princeton/IAS Symplectic Geometry Seminar + *Quantum Footprints of Symplectic Rigidity* + **Leonid Polterovich**, Tel Aviv University

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Spacing and a Large Sieve-Type Inequality for Roots of a Cubic Congruence* + **Matthew Welsh**, Rutgers, The State University of New Jersey

October 5

Allen-Cahn/Ginzburg-Landau Reading Group

Short talks by Postdoctoral Members + *Quantifying Eisenstein Congruences* + **Preston Wake**, Member, School of Mathematics + *Modeling Adaptive Communication Games* + **Sida Wang**, Member, School of Mathematics + *Classification of Algebraic Varieties* + **Jakub Witaszek**, Member, School of Mathematics + *Elliptic/Harmonic Measures and the Geometry of Domains* + **Zihui Zhao**, Member, School of Mathematics + *Morse Theory on Ellipsoids* + **Daniel J. Ketover**, Member, School of Mathematics + *The Asymptotic Spectrum of Tensors* + **Jeroen Zuiddam**, Member, School of Mathematics

October 8

Seminar on Theoretical Machine Learning

Members' Seminar + *Existence Theory of Minimal Hypersurfaces* + **Fernando Codá Marques**, Princeton University; Distinguished Visiting Professor, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Semitoric Families* + **Joseph Palmer**, Rutgers, The State University of New Jersey

October 9

Variational Methods in Geometry Seminar + *Singularity and Comparison Theorems for Metrics with Positive Scalar Curvature* + **Chao Li**, Stanford University; Visitor, School of Mathematics + *Construction of Hypersurfaces of Prescribed Mean Curvature* + **Jonathan Julian Zhu**, Harvard University; Visitor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Asymptotic Spectra and Their Applications I and II* + **Jeroen Zuiddam**, Member, School of Mathematics

October 10

Mathematical Conversations + *Stirring Efficiently* + **Camillo De Lellis**, Professor, School of Mathematics
Short talks by Postdoctoral Visitors + *Front Propagation in a Nonlocal Reaction-Diffusion Equation* + **Olga Turanova**, University of California, Los Angeles; Visitor, School of Mathematics + *Harmonic Maps between Singular Spaces* + **Brian Freidin**, Brown University; Visitor, School of Mathematics + *The Geometry of Neural Networks (aka Deep Learning for Mathematicians)* + **Yaim Cooper**, Visitor, School of Mathematics

Informal Group Action Seminar + *Thin Groups and Their Dynamics* + **Simion Filip**, Harvard University; Visitor, School of Mathematics

Symplectic Dynamics Working Group

October 11

Venkatesh Working Group + *Introduction to Perverse Sheaves* + **Mark Goresky**, Visitor, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar + *Explicit Formulae for Stark Units and Hilbert's Twelfth Problem* + **Samit Dasgupta**, Duke University

Working Seminar in Algebraic Number Theory

October 12

Allen-Cahn/Ginzburg-Landau Reading Group

October 15

Computer Science/Discrete Mathematics Seminar I + *Breaking the Circuit-Size Barrier in Secret Sharing* + **Vinod Vaikuntanathan**, Massachusetts Institute of Technology

Emerging Topics Working Group + *Introduction to Scalar Curvature and Convergence* + **Christina Sormani**, The City University of New York; Visitor, School of Mathematics

Seminar on Theoretical Machine Learning + *On the Dynamics of Gradient Descent for Training Deep Neural Networks* + **Wei Hu**, Princeton University

Members' Seminar + *Critical Hölder Exponents* + **Camillo De Lellis**, Professor, School of Mathematics

Informal Group Action Seminar + *Rigidity for Slowly Growing Representations of $SL(n, \mathbb{Z})$* + **Mikael de la Salle**, École Normale Supérieure de Lyon

Symplectic Dynamics/Geometry Seminar + *Structures in the Floer Theory of Symplectic Lie Groupoids* + **James Pascaleff**, University of Illinois at Urbana-Champaign

October 16

Emerging Topics Working Group + *Notions of Scalar Curvature* + **Mikhail Gromov**, Institut Des Hautes Études Scientifiques and New York University + *Positive Mass Theorem in All Dimensions* + **Richard Schoen**, University of California, Irvine; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Asymptotic Spectra and Their Applications I and II* + **Jeroen Zuiddam**, Member, School of Mathematics

October 17

Emerging Topics Working Group + *Stability of the Positive Mass Theorem* + **Lan-Hsuan Huang**, University of Connecticut; von Neumann Fellow, School of Mathematics + *Untitled Talk* + **Raquel Perales**, Universidad Nacional Autónoma de México

Mathematical Conversations + *Mathematical Structures in the Jungles of Life* + **Mikhail Gromov**, Institut Des Hautes Études Scientifiques and New York University

Symplectic Dynamics Working Group + *Billiard Dynamics—a Symplectic Point of View* + **Yaron Ostrover**, Tel Aviv University; von Neumann Fellow, School of Mathematics

October 18

Venkatesh Working Group

Emerging Topics Working Group + *Index Theory and Flexibility in Positive Scalar Curvature* + **Bernhard Hanke**, Universität Augsburg

Joint IAS/Princeton University Number Theory Seminar + *Honda-Tate Theory for Shimura Varieties* + **Mark Kisin**, Harvard University

Working Seminar in Algebraic Number Theory

October 19

Emerging Topics Working Group + *Tori of Almost Nonnegative Scalar Curvature* + **Brian Allen**, The City University of New York + *Conjectures for Intrinsic Flat Convergence and Scalar Curvature* + **Christina Sormani**, The City University of New York; Visitor, School of Mathematics + *Smooth Convergence Away from Singularities* + **Sajjad Lakzian**, Fordham University + *Formation of Research Teams*

Analysis Seminar + *Some Recent Results Related to the Strong Openness Property of Multiplier Ideal Sheaves* + **Qi'an Guan**, Peking University; Member, School of Mathematics

October 22

Computer Science/Discrete Mathematics Seminar I + *Approximating the Edit Distance to within a Constant Factor in Truly Subquadratic Time* + **Mike Saks**, Rutgers, The State University of New Jersey

Seminar on Theoretical Machine Learning + *Learning in Non-convex Games with an Optimization Oracle* + **Alon Gonen**, Princeton University

Members' Seminar + *New and Old Results in the Classical Theory of Minimal and Constant Mean Curvature Surfaces in Euclidean 3-Space \mathbf{R}^3* + **William H. Meeks III**, The University of Massachusetts; Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *A Local Systolic Inequality in Contact and Symplectic Geometry* + **Gabriele Benedetti**, Universität Heidelberg

October 23

Variational Methods in Geometry Seminar + *Existence of Infinitely Many Minimal Hypersurfaces in Closed Manifolds* + **Antoine Song**, Princeton University

Symplectic Dynamics Working Group + *A Rudimentary Introduction to Some Questions on Zero Entropy Conservative Surface Dynamics* + **Zhiyuan Zhang**, Member, School of Mathematics

Hermann Weyl Lectures + *Point-Counting and Diophantine Applications* + **Jonathan Pila**, University of Oxford

Computer Science/Discrete Mathematics Seminar II + *Small-Set Expansion on the Grassmann Graph* + **Dor Yosef Minzer**, Member, School of Mathematics

October 24

Mathematical Conversations + *What Is a Central Limit Theorem for Random Groups?* + **Melanie Wood**, University of Wisconsin–Madison

Hermann Weyl Lectures + *O-Minimality and Ax-Schanuel Properties* + **Jonathan Pila**, University of Oxford

October 25

Venkatesh Working Group + *Decomposition Theorem, Springer Representations, and the Iwahori-Hecke Algebra* + **Mark Goresky**, Visitor, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar + *Irreducible Components of Affine Deligne-Lusztig Varieties and Orbital Integrals* + **Rong Zhou**, Member, School of Mathematics

Working Seminar in Algebraic Number Theory

October 26

Allen-Cahn/Ginzburg-Landau Reading Group

Analysis Seminar

Hermann Weyl Lectures + *The Zilber-Pink Conjecture* + **Jonathan Pila**, University of Oxford

October 29

Computer Science/Discrete Mathematics Seminar I + *2-Universality of Random Graphs* + **Gal Kronenberg**, Tel Aviv University

Members' Seminar + *On Measures Invariant under the Diagonal Group—a New Approach* + **Elon Lindenstrauss**, The Hebrew University of Jerusalem; Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *A Simplicial Construction of G-Equivariant Floer Homology* + **Kristen Hendricks**, Michigan State University

Computer Science/Discrete Mathematics Seminar + *X-Ramanujan Graphs: Ex Uno Plures* + **Ryan O'Donnell**, Carnegie Mellon University

October 30

Variational Methods in Geometry Seminar + *Analysis of Some Conformally Invariant Problems* + **Paul Laurain**, Université Paris Diderot + *Recent Progress on Overdetermined Elliptic Problems* + **Jose Espinar**, Instituto Nacional de Matemática Pura e Aplicada, Rio de Janeiro

Computer Science/Discrete Mathematics Seminar II + *On the NP-Hardness of 2-to-2 Games* + **Dor Yosef Minzer**, Member, School of Mathematics

October 31

Informal Group Action Seminar + *The Difference between Lagrange and Markov after Hausdorff* + **Carlos Matheus Santos**, Centre National de la Recherche Scientifique, Paris

November 1

Venkatesh Working Group

Symplectic Dynamics Working Group + *Generic Dynamics: A Phenomenon/Mechanism Correspondence* + **Enrique Pujals**, The City University of New York

November 2

Allen-Cahn/Ginzburg-Landau Reading Group

November 5

Computer Science/Discrete Mathematics Seminar I + *Sunflowers and Friends* + **Shachar Lovett**, University of California, San Diego

Seminar on Theoretical Machine Learning + *Scalable Natural Gradient Training of Neural Networks* + Roger Grosse, University of Toronto

Workshop on Mean Curvature and Regularity + *Spacetime Aspects of Mean Curvature in General Relativity* + **Richard Schoen**, University of California, Irvine; Member, School of Mathematics + *Weyl Law for the Phase Transition Spectrum and Density of Limit-Interfaces* + **Marco Aurelio Mendez Guaraco**, Member, School of Mathematics + *Some Minimal Submanifolds Generalizing the Clifford Torus* + **Jaigyoung Choe**, Korea Institute for Advanced Study

November 6

Symplectic Dynamics Working Group + *Hamiltonian Pseudo-rotations of Projective Spaces* + **Zhengyi Zhou**, Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *The GM-MDS Conjecture* + **Shachar Lovett**, University of California, San Diego

Workshop on Mean Curvature and Regularity + *Boundary Regularity for Area Minimizing Currents and a Question of Almgren* + **Camillo De Lellis**, Professor, School of Mathematics + *Topological Uniqueness of Self-Expanders of Small Entropy* + **Lu Wang**, University of Wisconsin–Madison; von Neumann Fellow, School of Mathematics + *A Priori Estimates for Einstein Manifolds* + **Aaron Naber**, Northwestern University

November 7

Mathematical Conversations + *Hodge-Riemann Relations for Potts-Model Partition Functions* + **June Huh**, Visiting Professor, School of Mathematics

Workshop on Mean Curvature and Regularity + *Progress on Existence of Minimal Surfaces* + **André Neves**, Member, School of Mathematics + *A Plateau Problem at Infinity in $\mathbf{H}^2 \times \mathbf{R}$* + **Magdalena Rodriguez**, Universidad de Granada + *Sinh-Gordon Equation and Application to the Geometry of CMC Surfaces* + **Laurent Hauswirth**, Université Paris–Est Marne-la-Vallée + *Recent Gluing Constructions in Geometry and the Gluing Methodology* + **Nicolaos Kapouleas**, Brown University; Member, School of Mathematics

November 8

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Epsilon Dichotomy for Linear Models* + **Hang Xue**, The University of Arizona

Working Seminar in Algebraic Number Theory

Workshop on Mean Curvature and Regularity + *Locating Minimal Surfaces in Geostatic Manifolds* + **Christina Sormani**, The City University of New York; Member, School of Mathematics + *Generic Uniqueness of Expanders with Vanishing Relative Entropy* + **Felix**

Schulze, University College London + *The Embedded Calabi-Yau Problem for Minimal Surfaces of Finite Genus* + **Joaquin Perez**, Universidad de Granada

November 9

Allen-Cahn/Ginzburg-Landau Reading Group

Workshop on Mean Curvature and Regularity + *Free Boundary Minimal Möbius Bands* + **Ailana Fraser**, The University of British Columbia; Member, School of Mathematics + *Progress in the Theory of CMC Surfaces in Locally Homogeneous 3-Manifolds X* + **William H. Meeks III**, University of Massachusetts; Member, School of Mathematics

November 12

Seminar on Theoretical Machine Learning + *Generalized Framework for Nonlinear Acceleration* + **Damien Scieur**, Princeton University
Members' Seminar + *Invertible Objects in Stable Homotopy Theory* + **Irina Bobkova**, Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Distinguishing Fillings via Dynamics of Fukaya Categories* + **Yusuf Baris Kartal**, Massachusetts Institute of Technology

November 13

Variational Methods in Geometry Seminar + *Translators for Mean Curvature Flow* + **David Hoffman**, Stanford University + *Morse-Theoretic Aspects of the Willmore Energy* + **Alexis Michelat**, Eidgenössische Technische Hochschule Zürich

Symplectic Dynamics Working Group + *Celestial Mechanics and Holomorphic Curves* + **Umberto Leone Hryniewicz**, Universidade Federal do Rio de Janeiro; von Neumann Fellow, School of Mathematics

November 14

Mathematical Conversations + *The Stability of Atoms and the Ionization Conjecture* + **Ian Jauslin**, Princeton University

Informal Group Action Seminar + *Dimension of Self-Affine Measures and Additive Combinatorics* + **Michael Hochman**, The Hebrew University of Jerusalem; von Neumann Fellow, School of Mathematics

Symplectic Dynamics Working Group

November 15

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Hyperfields, Ordered Blueprints, and Moduli Spaces of Matroids* + **Matt Baker**, Georgia Institute of Technology

Working Seminar in Algebraic Number Theory

November 16

Allen-Cahn/Ginzburg-Landau Reading Group

Analysis Seminar + *Some Recent Results Related to the Strong Openness Property of Multiplier Ideal Sheaves* + **Qi'an Guan**, Peking University; Member, School of Mathematics

November 19

Seminar on Theoretical Machine Learning + *Prediction with a Short Memory* + **Sham Kakade**, University of Washington and Google Brain

Members' Seminar + *A Tale of Two Conjectures: From Mahler to Viterbo* + **Yaron Ostrover**, Tel Aviv University; von Neumann Fellow, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Lyapunov Exponents for Small Random Perturbations of Predominantly Hyperbolic Two-Dimensional Volume-Preserving Diffeomorphisms, Including the Standard Map* + **Alex Blumenthal**, University of Maryland

November 20

Variational Methods in Geometry Seminar + *Almgren's Isomorphism Theorem and Parametric Isoperimetric Inequalities* + **Yevgeny Liokumovich**, Massachusetts Institute of Technology; Member, School of Mathematics + *The Min-Max Width of Unit Volume Three-Spheres* + **Lucas Coelho Ambrozio**, University of Warwick; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Introduction to Query-to-Communication Lifting* + **Mika Göös**, Member, School of Mathematics

November 22

Venkatesh Working Group

November 23

Allen-Cahn/Ginzburg-Landau Reading Group

November 26

Computer Science/Discrete Mathematics Seminar I + *Classical Verification of Quantum Computations* + **Urmila Mahadev**, University of California, Berkeley

Seminar on Theoretical Machine Learning + *à la Carte Embedding: Cheap but Effective Induction of Semantic Feature Vectors* + **Nikunj Saunshi**, Princeton University

Members' Seminar + *Effective Sato-Tate under GRH* + **Alina Ioana Bucur**, University of California, San Diego; von Neumann Fellow, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Some Developments in the Legendrian Grid Invariants* + **C.-M. Michael Wong**, Louisiana State University

November 27

Joint IAS/Princeton University Number Theory Seminar + *Good and Semi-stable Reductions of Shimura Varieties* + **Michael Rapoport**, Universität Bonn

Variational Methods in Geometry Seminar + *Homotopical Effects of K-Dilation* + **Larry Guth**, Massachusetts Institute of Technology + *Bubbling Theory for Minimal Hypersurfaces* + **Ben Sharp**, University of Warwick

Symplectic Dynamics Working Group + *Holomorphic Curves and Celestial Mechanics* + **Umberto Leone Hryniewicz**, Universidade Federal do Rio de Janeiro; von Neumann Fellow, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Monotone Circuit Lower Bounds from Resolution* + **Mika Göös**, Member, School of Mathematics

November 28

Mathematical Conversations + *The Isoperimetric Inequality* + **Robin Neumayer**, Member, School of Mathematics

Informal Group Action Seminar + *Characterizing Locally Symmetric Spaces by Their Lyapunov Spectra* + **Clark W. Butler**, Princeton University; Veblen Research Instructor, School of Mathematics

November 29

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *The Lucky Logarithmic Derivative* + **Will Sawin**, Columbia University

Working Seminar in Algebraic Number Theory

November 30

Allen-Cahn/Ginzburg-Landau Reading Group

Analysis Seminar + *Branched Conformal Structures and the Dyson Superprocess* + **Govind Menon**, Brown University; Member, School of Mathematics

December 3

Members' Seminar + *Recent Progress on Zimmer's Conjecture* + **David M. Fisher**, Indiana University; Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Mean Action of Periodic Orbits of Area-Preserving Annulus Diffeomorphisms* + **Morgan Weiler**, University of California, Berkeley

December 4

Joint IAS/Princeton University Number Theory Seminar + *p-adic Cohomology of the Drinfeld Half-Space* + **Wiesława Nizioł**, École Normale Supérieure de Lyon

Variational Methods in Geometry Seminar + *Global Results Related to Scalar Curvature and Isoperimetry* + **Otis Chodosh**, Princeton University; Veblen Research Instructor, School of Mathematics

Symplectic Dynamics Working Group + *Coarse Geometry of the Group of Hamiltonian Diffeomorphisms via the Theory of Persistence Modules* + **Daniel Álvarez-Gavela**, Member, School of Mathematics

December 5

Mathematical Conversations + *Two Short Stories on Mathematical Uncertainty Principle* + **Eugenia Malinnikova**, Norwegian University of Science and Technology; von Neumann Fellow, School of Mathematics

Informal Group Action Seminar + *New Techniques for Zimmer's Conjecture* + **David M. Fisher**, Indiana University; Member, School of Mathematics + *An Application of Margulis's Inequality to Effective Equidistribution* + **Asaf Katz**, The University of Chicago

December 6

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Slopes in Eigenvarieties for Definite Unitary Groups* + **Lynelle Ye**, Harvard University

Working Seminar in Algebraic Number Theory

December 7

Allen-Cahn/Ginzburg-Landau Reading Group

December 10

Computer Science/Discrete Mathematics Seminar I + *A Matrix Expander Chernoff Bound* + **Ankit Garg**, Microsoft Research

Seminar on Theoretical Machine Learning + *On Expressiveness and Optimization in Deep Learning* + **Nadav Cohen**, Member, School of Mathematics

Members' Seminar + *Schubert Polynomials via Triangulations of Flow Polytopes* + **Karola Mészáros**, Cornell University; von Neumann Fellow, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Upper Bounds on the Lagrangian Spectral Norm* + **Egor Shelukhin**, Université de Montréal

December 11

Variational Methods in Geometry Seminar + *Density and Equidistribution of Minimal Hypersurfaces* + **André Neves**, The University of Chicago; Member, School of Mathematics + *Harmonic Maps into Singular Spaces* + **Brian Freidin**, Brown University; Visitor, School of Mathematics

Symplectic Dynamics Working Group + *Hamiltonian Pseudo-rotations of Projective Spaces* + **Zhengyi Zhou**, Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *An Invitation to Tensor Networks* + **Michael Walter**, University of Amsterdam

December 12

Mathematical Conversations + *How to Detect a Projective Space?* + **Jakub Witaszek**, Member, School of Mathematics

Informal Group Action Seminar + *Non-accumulation of Periodic Torus Orbits* + **Ilya Khayutin**, Princeton University; Veblen Research Instructor, School of Mathematics

December 13

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Nearby Cycles over General Bases and Duality* + **Weizhe Zheng**, Morningside Center of Mathematics, Chinese Academy of Sciences, Beijing

Working Seminar in Algebraic Number Theory

December 14

Allen-Cahn/Ginzburg-Landau Reading Group

Analysis Seminar + *Two Questions of Landis and Their Applications* + **Eugenia Malinnikova**, Norwegian University of Science and Technology; von Neumann Fellow, School of Mathematics

December 17

Symplectic Dynamics/Geometry Seminar + *Barcodes and C^0 Symplectic Topology* + **Sobhan Seyfaddini**, École Normale Supérieure, Paris

December 18

Variational Methods in Geometry Seminar + *Bounds in Renormalized Volume for Hyperbolic 3-Manifolds* + **Franco E. Vargas Pallete**, University of California, Berkeley; Member, School of Mathematics

Symplectic Dynamics Working Group + *Celestial Mechanics and Holomorphic Curves II* + **Umberto Leone Hryniewicz**, Universidade Federal do Rio de Janeiro; von Neumann Fellow, School of Mathematics

January 9

Mathematics Seminar + *Distribution of the Integral Points on Quadrics* + **Naser Talebi Zadeh Sardari**, University of Wisconsin-Madison + *The Sup-Norm Problem on S^3* + **Raphael Sebastian Steiner**, Member, School of Mathematics + *Ramanujan Complexes and Golden Gates in $PU(3)$* + **Shai Evra**, Member, School of Mathematics

January 15

Variational Methods in Geometry Seminar + *Regularity of Weakly Stable Codimension 1 CMC Varifolds* + **Neshan Wickramasekera**, University of Cambridge; Member, School of Mathematics + *Minimal Surfaces with Index One in Spherical Space Forms* + **Celso dos Santos Viana**, Member, School of Mathematics

January 16

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

January 22

Joint IAS/Princeton University Number Theory Seminar + *The Eigencurve at Eisenstein Weight One Points* + **Alice Pozzi**, University College London

Variational Methods in Geometry Seminar + *Symplectic Methods for Sharp Systolic Inequalities* + **Umberto Leone Hryniewicz**, Universidade Federal do Rio de Janeiro; Member, School of Mathematics + *(Non)Uniqueness Questions in Mean Curvature Flow* + **Lu Wang**, University of Wisconsin-Madison; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *New Results on Projections* + **Guy Moshkovitz**, Member, School of Mathematics

January 23

Mathematical Conversations + *Bourgain and the Sum-Product Phenomena* + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

BYOP@Lunch Working Group

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Raju Krishnamoorthy**, University of Georgia

January 24

Venkatesh Working Group

Analysis Seminar + *Multiplicity of Eigenvalues for the Circular Clamped Plate Problem* + **Dan Mangoubi**, The Hebrew University of Jerusalem

January 28

Computer Science/Discrete Mathematics Seminar I + *PCP and Delegating Computation: A Love Story* + **Yael Tauman Kalai**, Microsoft Research

Members' Seminar + *Minimal Hypersurfaces in Manifolds of Finite Volume* + **Yevgeny Liokumovich**, Massachusetts Institute of Technology; Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Vortex Equation and Gauged Sigma Model* + **Guangbo Xu**, Simons Center for Geometry and Physics, Stony Brook University, The State University of New York

January 29

Variational Methods in Geometry Seminar + *Min-Max Minimal Surfaces in Arbitrary Codimension* + **Tristan Riviere**, Eidgenössische Technische Hochschule Zürich; Member, School of Mathematics + *The Systole of Large Genus Minimal Surfaces in Positive Ricci Curvature* + **Henrik Matthiesen**, The University of Chicago

Computer Science/Discrete Mathematics Seminar II + *A Regularity Lemma with Modifications* + **Guy Moshkovitz**, Member, School of Mathematics

January 30

Mathematical Conversations + *A Mathematical Conjecture about Crumpling Paper* + **Francesco Maggi**, The University of Texas at Austin; Member, School of Mathematics

BYOP@Lunch Working Group

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Daniel Litt**, University of Georgia; Member, School of Mathematics

January 31

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Upper Bounds for Constant Slope p -adic Families of Modular Forms* + **John Bergdall**, Bryn Mawr College

Analysis Seminar + *Analyticity Results for the Navier-Stokes Equations* + **Guher Camliyurt**, Member, School of Mathematics

February 4

Computer Science/Discrete Mathematics Seminar I + *Near-Optimal Strong Dispersers* + **Dean Doron**, The University of Texas at Austin

Members' Seminar + *The Sample Complexity of Multireference Alignment* + **Philippe Rigollet**, Massachusetts Institute of Technology; Visiting Professor, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *A Sheaf-Theoretic $SL(2, \mathbb{C})$ Floer Homology for Knots* + **Laurent Cote**, Stanford University

Joint IAS/Princeton University Algebraic Geometry Seminar + *Drinfeld's Lemma for Schemes* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

February 5

Variational Methods in Geometry Seminar + *Spacetime Positive Mass Theorem* + **Lan-Hsuan Huang**, University of Connecticut; von Neumann Fellow, School of Mathematics + *On the Topology and Index of Minimal Surfaces* + **Davi Maximo**, University of Pennsylvania; Member, School of Mathematics

Symplectic Dynamics Working Group + *Quasiconformality and the Lyapunov Spectrum* + **Clark W. Butler**, Princeton University; Veblen Research Instructor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Noncommutative Rank* + **Viswambhara Makam**, University of Michigan; Member, School of Mathematics

February 6

Mathematical Conversations + *How to Efficiently Check Proofs* + **Dor Yosef Minzer**, Member, School of Mathematics

Working Group on Geometric Applications of the Langlands Correspondence

February 7

Joint IAS/Princeton University Number Theory Seminar + *p -adic Integration and Geometric Stabilization* + **Dimitry Wyss**, Sorbonne Université

Working Seminar in Algebraic Number Theory + *Introduction* + **Preston Wake**, Member, School of Mathematics

Analysis Seminar + *Positive Canonical Bundle under Negative Holomorphic Curvature* + **Damin Wu**, University of Connecticut; Member, School of Mathematics

February 11

Computer Science/Discrete Mathematics Seminar I + *Interactive Coding over the Noisy Broadcast Channel* + **Gillat Kol**, Princeton University

Seminar on Theoretical Machine Learning + *Online Control with Adversarial Disturbances* + **Naman Agarwal**

Members' Seminar + *Quantum Jacobi Forms and Applications* + **Amanda L. Folsom**, Amherst College; von Neumann Fellow, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Getting a Handle on Contact Manifolds* + **Kevin Sackel**, Massachusetts Institute of Technology

Joint IAS/Princeton University Algebraic Geometry Seminar + *On the Algebraic Sato-Tate Conjecture for Abelian Varieties* + **Victoria Cantoral-Farfán**, International Centre for Theoretical Physics, Trieste, Italy

February 12

Variational Methods in Geometry Seminar + *Min-Max Solutions of the Ginzburg-Landau Equations on Closed Manifolds* + **Daniel Stern**, Princeton University + *Isoperimetry and Boundaries with Almost Constant Mean Curvature* + **Francesco Maggi**, The University of Texas at Austin; Member, School of Mathematics

Symplectic Dynamics Working Group

Computer Science/Discrete Mathematics Seminar II + *Why Can't We Prove Tensor Rank and Waring Rank Lower Bounds?* + **Viswambhara Makam**, University of Michigan; Member, School of Mathematics

February 13

Mathematical Conversations + *Harmonic Measure and Boundary Regularity* + **Zihui Zhao**, Member, School of Mathematics

BYOP@Lunch Working Group

Seminar on Theoretical Machine Learning + *Understanding and Rewiring SGD for Practically Effective ML* + **Rahul Kidambi**, University of Washington

Working Group on Geometric Applications of the Langlands Correspondence

February 14

Venkatesh Working Group + *The Equivariant Derived Category* + **Mark Goresky**, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar + *An Application of a Conjecture of Mazur-Tate to Supersingular Elliptic Curves* + **Emmanuel Lecouturier**, Tsinghua University

Working Seminar in Algebraic Number Theory + *Modular Symbols and L -Values of Modular Forms* + **Eric Chen**, Princeton University

Analysis Seminar + *Elliptic Measures and the Geometry of Domains* + **Zihui Zhao**, Member, School of Mathematics

February 18

Seminar on Theoretical Machine Learning + *Curiosity, Intrinsic Motivation, and Provably Efficient Maximum Entropy Exploration* + **Karan Singh**, Princeton University

Joint IAS/Princeton University Algebraic Geometry Seminar + *An Example of Liftings with Different Hodge Numbers* + **Shizhang Li**, Columbia University

February 19

Variational Methods in Geometry Seminar + *On Minimizers and Critical Points for Anisotropic Isoperimetric Problems* + **Robin Neumayer**, Member, School of Mathematics + *Invariant*

Metrics and the Greene-Wu Conjectures + **Damin Wu**, University of Connecticut; Member, School of Mathematics

Symplectic Dynamics Working Group + *Entropy and Dynamical Systems in Dimension 2* + **Fabio Tal**, Universidade de São Paulo

Computer Science/Discrete Mathematics Seminar II + *Lorentzian Polynomials* + **June Huh**, Visiting Professor, School of Mathematics

February 20

Mathematical Conversations + *Finite Fields and the Ax-Grothendieck Theorem* + **Remy van Dobben de Bruyn**, Princeton University; Veblen Research Instructor, School of Mathematics

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Working Group on Geometric Applications of the Langlands Correspondence

February 21

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Automorphy of Mod 3 Representations over CM Fields* + **Patrick Allen**, University of Illinois at Urbana-Champaign

Working Seminar in Algebraic Number Theory + *Class Groups and Galois Cohomology* + **Shilin Lai**, Princeton University

Analysis Seminar + *Plateau's Problem as a Capillarity Problem* + **Francesco Maggi**, The University of Texas at Austin; Member, School of Mathematics

February 22

Deep Learning: Alchemy or Science?

February 25

Computer Science/Discrete Mathematics Seminar I + *Strongly Log Concave Polynomials, High-Dimensional Simplicial Complexes, and an FPRAS for Counting Bases of Matroids* + **Shayan Oveis Gharan**, University of Washington

Members' Seminar + *Positive Geometries* + **Thomas Lam**, University of Michigan; von Neumann Fellow, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Higher Symplectic Capacities* + **Kyler Siegel**, Columbia University

Joint IAS/Princeton University Algebraic Geometry Seminar + *Vertex Algebras and Moduli of Curves* + **Nicola Tarasca**, Rutgers, The State University of New Jersey

February 26

Variational Methods in Geometry Seminar + *Geodesic Nets: Examples and Open Problems* + **Alexander Nabutovsky**, University of

Toronto; Member, School of Mathematics + *Ancient Gradient Flows of Elliptic Functionals* + **Christos Mantoulidis**, Massachusetts Institute of Technology

Computer Science/Discrete Mathematics Seminar II + *Lorentzian Polynomials* + **June Huh**, Visiting Professor, School of Mathematics

February 27

Mathematical Conversations + *Hodge Theory: Matrices and Differential Equations* + **Simon Filip**, Harvard University; Visitor, School of Mathematics

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Symplectic Dynamics Working Group + *Diffusion Process in the Three-Body Problem* + **Marian Gidea**, Yeshiva University

Emerging Topics on Scalar Curvature and Convergence + *Techniques for Proving Intrinsic Flat Limits Are Not the Zero Space* + **Christina Sormani**, The City University of New York; Visitor, School of Mathematics

Working Group on Geometric Applications of the Langlands Correspondence

February 28

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Derived Structures Controlling Representations* + **Carl Wang-Erickson**, Imperial College London

Working Seminar in Algebraic Number Theory + *Cup Products and K-Groups* + **Francisc Fité**, Member, School of Mathematics

Analysis Seminar + *Global Well-Posedness and Scattering for the Radially Symmetric Cubic Wave Equation with a Critical Sobolev Norm* + **Benjamin G. Dodson**, Johns Hopkins University; von Neumann Fellow, School of Mathematics

March 1

Workshop on New Ideas and Tools in Turbulence + *Remarks on Turbulence* + **Katepalli Sreenivasan**, New York University; Member, School of Mathematics + *3-Point Function of Vorticity in 2D Turbulence* + **Alexander Polyakov**, Princeton University + *Emergence of Multiscaling in a Flow Driven by a Random Force* + **Victor Yakhot**, Boston University + *Latest and Most Exciting Theories of Hydrodynamic Turbulence* + **Peter Constantin**, Princeton University + *For What It's Worth: An Analyst's Hunt for Asymptotic Heat Transport in Rayleigh-Bénard Convection* + **Charlie Doering**, University of Michigan + *Application of Machine Learning to Turbulence Modeling* + **Weinan E**, Princeton University + *Cascades in Vortex*

Collisions + **Ryan McKeown**, Harvard University + *Voluntary Thoughts on Turbulence* + Multiple speakers

March 2

Workshop on New Ideas and Tools in Turbulence + *Nonuniqueness of Weak Solutions to the Navier-Stokes Equations* + **Tristan Buckmaster**, Princeton University + *Spontaneously Stochastic Solutions in Dynamical Systems with Singularities* + **Theo Drivas**, Princeton University + *Lagrangian Chaos and Passive Scalar Turbulence* + **Jacob Bedrossian**, University of Maryland + *Statistical Mechanics and the Isometric Embedding Problem* + **Govind Menon**, Brown University; Member, School of Mathematics

March 4

Computer Science/Discrete Mathematics Seminar I + *Local and Global Expansion of Graphs* + **Yuval Peled**, New York University

Seminar on Theoretical Machine Learning + *FFJORD: Free-Form Continuous Dynamics for Scalable Reversible Generative Models* + **Will Grathwohl**, University of Toronto

Symplectic Dynamics/Geometry Seminar + *Gysin Sequences and Cohomology Ring of Symplectic Fillings* + **Zhengyi Zhou**, Member, School of Mathematics

Joint IAS/Princeton University Algebraic Geometry Seminar + *Volumes and Intersection Theory on Moduli Spaces of Abelian Differentials* + **Dawei Chen**, Boston College; Member, School of Mathematics

Workshop on Geometric Functionals: Analysis and Applications + *Compactness of Conformally Compact Einstein Manifolds in Dimension 4* + **Alice Chang**, Princeton University + *Singularities of Teichmüller Harmonic Map Flow* + **Melanie Rupflin**, University of Oxford + *Self-Similar Solutions of Mean Curvature Flow and Entropy* + **Jacob Bernstein**, Johns Hopkins University; Member, School of Mathematics + *Kähler Constant Scalar Curvature Metrics on Blow Ups and Resolutions of Singularities* + **Claudio Arezzo**, International Centre for Theoretical Physics, Trieste, Italy

March 5

Workshop on Geometric Functionals: Analysis and Applications + *L^p Curvatures: Some Analysis Questions from Gauge Theory* + **Tristan Riviere**, Eidgenössische Technische Hochschule Zürich; Member, School of Mathematics + *Spacetime Positive Mass Theorem* + **Lan-Hsuan Huang**, University of Connecticut; von Neumann Fellow, School of Mathematics + *Periodic Geodesics and Geodesic Nets on Riemannian Manifolds* + **Regina Rotman**, University of Toronto; Member, School of Mathematics + *Liouville Equations and Functional Determinants* + **Andrea Malchiodi**, Scuola Normale Superiore di Pisa

Computer Science/Discrete Mathematics Seminar II + *Improved List-Decoding and Local List-Decoding Algorithms for Polynomial Codes* + **Swastik Kopparty**, Rutgers, The State University of New Jersey; Member, School of Mathematics

March 6

Mathematical Conversations + *From Celestial Mechanics to the Arnold Conjectures* + **Umberto Leone Hryniewicz**, Universidade Federal do Rio de Janeiro; von Neumann Fellow, School of Mathematics
Seminar on Theoretical Machine Learning + *Exponentiated Gradient Meets Gradient Descent* + **Will Grathwohl**, University of Toronto

Workshop on Geometric Functionals: Analysis and Applications + *Normalized Harmonic Map Flow* + **Michael Struwe**, Eidgenössische Technische Hochschule Zürich + *Loop Products, Closed Geodesics, and Self-Intersections* + **Nancy Hingston**, The College of New Jersey + *Nature of Some Stationary Varifolds near Multiplicity 2 Tangent Planes* + **Neshan Wickramasekera**, University of Cambridge; Member, School of Mathematics + *Existence and Uniqueness of Green's Function to a Nonlinear Yamabe Problem* + **Yanyan Li**, Rutgers, The State University of New Jersey

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Daniel Litt**, University of Georgia; Member, School of Mathematics

March 7

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Special Cycles on Orthogonal Shimura Varieties* + **Eugenia Rosu**, The University of Arizona

Working Seminar in Algebraic Number Theory

Workshop on Geometric Functionals: Analysis and Applications + *Compactness and Finiteness Theorems (Almost) without Curvature* + **Gerard Besson**, Université de Grenoble + *One-Cycle Sweepout Estimates of Essential Surfaces in Closed Riemannian Manifolds* + **Stéphane Sabourau**, Université Paris-Est Créteil + *L^2 Curvature for Surfaces in Riemannian Manifolds* + **Ernst Kuwert**, Albert-Ludwigs-Universität Freiburg

March 8

Workshop on Geometric Functionals: Analysis and Applications + *Rici Flows That Attain Their Initial Data Weakly* + **Peter Topping**, University of Warwick + *Filling Metric Spaces* + **Alexander Nabutovsky**, University of Toronto; Member, School of Mathematics

March 11

Computer Science/Discrete Mathematics Seminar I + *Near Log-Convexity of Measured Heat in (Discrete) Time and Consequences* + **Mert Sağlam**, University of Washington

Seminar on Theoretical Machine Learning + *A Theoretical Analysis of Contrastive Unsupervised Representation Learning* + **Orestis Plevrakis**, Princeton University

Members' Seminar + *Geometry of Two-Dimensional Riemannian Disks and Spheres* + **Regina Rotman**, University of Toronto; Member, School of Mathematics

Joint IAS/Princeton University Algebraic Geometry Seminar + *A Non-Archimedean Ax-Lindemann Theorem* + **Antoine Chambert-Loir**, Université Paris Diderot

March 12

Variational Methods in Geometry Seminar + *Macroscopically Minimal Hypersurfaces* + **Hannah Alpert**, The Ohio State University

Computer Science/Discrete Mathematics Seminar II + *Halting Problems for Sandpiles and Abelian Networks* + **Lionel Levine**, Cornell University; von Neumann Fellow

March 13

Mathematical Conversations + *Wiggling and Wrinkling* + **Daniel Álvarez-Gavela**, Member, School of Mathematics

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March 14

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Local Aspects of Venkatesh's Thesis* + **Yiannis Sakellariadis**, Rutgers, The State University of New Jersey

Working Seminar in Algebraic Number Theory + *The Map to K_2 without Symbols* + **Akshay Venkatesh**, Professor, School of Mathematics

Analysis Seminar + *Gradient Gibbs Models and Homogenization* + **Scott Armstrong**, New York University

March 15

Analysis Seminar + *Localization and Delocalization for Interacting 1D Quasiperiodic Particles* + **Ilya Kachkovskiy**, Michigan State University

March 18

Computer Science/Discrete Mathematics Seminar I + *An Application of the Universality Theorem for Tverberg Partitions* + **Imre Barany**, Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences, Budapest, and University College London

Members' Seminar + *Tracking Trajectories in Hamiltonian Systems Using Holomorphic Curve Tools* + **Barney Bramham**, Ruhr-Universität Bochum; von Neumann Fellow, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Minimal Sets and Properties of Feral Pseudoholomorphic Curves* + **Joel Fish**, University of Massachusetts, Boston

March 19

Variational Methods in Geometry Seminar + *Gap and Index Estimates for Yang-Mills Connections in 4D* + **Matthew Gursky**, University of Notre Dame + *Multiplicity One Conjecture in Min-Max Theory* + **Xin Zhou**, University of California, Santa Barbara; Member, School of Mathematics

Symplectic Dynamics Working Group + *Properties of Feral Pseudoholomorphic Curves* + **Joel Fish**, University of Massachusetts, Boston

Computer Science/Discrete Mathematics Seminar II + *A Brief Tour of Proof Complexity: Lower Bounds and Open Problems* + **Toniann Pitassi**, University of Toronto; Visiting Professor, School of Mathematics

March 20

Mathematical Conversations + *From Dynamics to Contact Topology and Back* + **Jo Nelson**, Rice University

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Symplectic Dynamics/Geometry Seminar + *Equivariant and Nonequivariant Contact Homology* + **Jo Nelson**, Rice University

March 21

Analysis Seminar + *Front Propagation in a Nonlocal Reaction-Diffusion Equation* + **Olga Turanova**, University of California, Los Angeles; Visitor, School of Mathematics

LMFDB

March 22

LMFDB

March 25

Computer Science/Discrete Mathematics Seminar I + *On the Approximation Resistance of Balanced Linear Threshold Functions* + **Aaron Potechin**, The University of Chicago

Members' Seminar + *The General Case?* + **Amie Wilkinson**, The University of Chicago

Joint IAS/Princeton University Algebraic Geometry Seminar + *Singular Hodge Theory of Matroids* + **Jacob Matherne**, Member, School of Mathematics

March 26

Variational Methods in Geometry Seminar + *a-Harmonic Maps between Spheres* + **Tobias Lamm**, Karlsruher Institut für Technologie + *A Mountain Pass Theorem for Minimal Hypersurfaces with Fixed Boundary* + **Rafael Montezuma**, Princeton University

Computer Science/Discrete Mathematics Seminar II + *Factors of Sparse Polynomials: Structural Results and Some Algorithms* + **Shubhangi Saraf**, Member, School of Mathematics

Emerging Topics Working Group + *Coherence, Planar Boundaries, and the Geometry of Subgroups* + **Genevieve Walsh**, Tufts University + *One-Relator Groups, Nonpositive Immersions, and Coherence* + **Henry Wilton**, University of Cambridge

March 27

Mathematical Conversations + *A Curious Family of Curves* + **Amie Wilkinson**, The University of Chicago

Variational Methods in Geometry Seminar + *Multiplicity One Conjecture in Min-Max Theory (continued)* + **Xin Zhou**, University of California, Santa Barbara; Member, School of Mathematics

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Emerging Topics Working Group + *Coherence and Lattices* + **Matthew Stover**, Temple University

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

March 28

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Stronger Arithmetic Equivalence* + **Andrew Sutherland**, Massachusetts Institute of Technology

Working Seminar in Algebraic Number Theory + *Hida Theory and Ohta's Canonical Comparison Map* + **Giada Grossi**, University College London

April 1

Computer Science/Discrete Mathematics Seminar I + *Fooling Polytopes* + **Li-Yang Tan**, Stanford University

Members' Seminar + *A Recent Perspective on Invariant Theory* + **Viswambhara Makam**, Member, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *The Arnold Conjecture via Symplectic Field Theory Polyfolds* + **Ben Filippenko**, University of California, Berkeley

Joint IAS/Princeton University Algebraic Geometry Seminar + *Motivic Euler Products and Motivic Height Zeta Functions* + **Margaret Bilu**, New York University

April 2

Variational Methods in Geometry Seminar + *Stable Hypersurfaces with Prescribed Mean Curvature* + **Costante Bellettini**, Princeton University; Member, School of Mathematics + *Constrained Deformations of Positive Scalar Curvature Metrics* + **Alessandro Carlotto**, Eidgenössische Technische Hochschule Zürich; Member, School of Mathematics

Symplectic Dynamics Working Group

Computer Science/Discrete Mathematics Seminar II + *A High-Dimensional Littlewood-Offord Inequality* + **Li-Yang Tan**, Stanford University

April 3

Mathematical Conversations + *A Glamorous Movie Star, the "Bad Boy" of Music, and the Development of Spread Spectrum Communications* + **Mark Goresky**, School of Mathematics

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

April 4

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Singular Moduli for Real Quadratic Fields* + **Jan Vonk**, University of Oxford

Working Seminar in Algebraic Number Theory + *p-adic L-Functions in One and Two Variables* + **Kim Tuan Do**, Princeton University

Analysis Seminar + *Higher Regularity of the Singular Set in the Thin Obstacle Problem* + **Yash Jhaveri**, Member, School of Mathematics

April 5

Analysis Seminar + *Two-Dimensional Random Field Ising Model at Zero Temperature* + **Jian Ding**, The Wharton School, University of Pennsylvania

April 8

Computer Science/Discrete Mathematics Seminar I + *Collective Coin-Flipping Protocols and Influences of Coalitions* + **Hamed Hatami**, McGill University

Seminar on Theoretical Machine Learning + *Fast Minimization of Structured Convex Quartics* + **Brian Bullins**, Princeton University

Symplectic Dynamics/Geometry Seminar + *Constructions in Symplectic and Contact Topology via H-Principles* + **Oleg Lazarev**, Columbia University

Joint IAS/Princeton University Algebraic Geometry Seminar + *Macaulayfication of Noetherian Schemes* + **Kęstutis Česnavičius**, Université Paris-Sud and Mathematical Sciences Research Institute

Marston Morse Lectures + *Disorder Increases Almost Surely* + **Laure Saint-Raymond**, Université Pierre et Marie Curie and Ecole Normale Supérieure

April 9

Variational Methods in Geometry Seminar + *The Energy Functional on Besse Manifolds* + **Marco Radeschi**, University of Notre Dame + *Bifurcating Conformal Metrics with Constant Q-Curvature* + **Renato Bettiol**, The City University of New York

Marston Morse Lectures + *Space-Time Correlations at Equilibrium* + **Laure Saint-Raymond**, Université Pierre et Marie Curie and Ecole Normale Supérieure

Computer Science/Discrete Mathematics Seminar II + *Flow Polytopes* + **Karola Mészáros**, Cornell University; von Neumann Fellow, School of Mathematics

April 10

Mathematical Conversations + *How Do Computers Do Arithmetic, and Should We Believe the Answers?* + **Scott Tremaine**, Richard Black Professor, School of Natural Sciences

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Joe Kramer-Miller**, University of California, Irvine

April 11

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Sato-Tate Groups of Abelian Threefolds* + **Francesc Fité**, Member, School of Mathematics

Working Seminar in Algebraic Number Theory + *Overview of the Work of Fukaya-Kato* + **Preston Wake**, Member, School of Mathematics

Marston Morse Lectures + *Fluctuations Look Like White Noise* + **Laure Saint-Raymond**, Université Pierre et Marie Curie and Ecole Normale Supérieure

April 15

Computer Science/Discrete Mathematics Seminar I + *On the Possibility of an Instance-Based Complexity Theory* + **Boaz Barak**, Harvard University

Seminar on Theoretical Machine Learning + *Is Optimization/ERM the Right Metaphor for Deep Learning?* + **Sanjeev Arora**, Princeton University; Visiting Professor, School of Mathematics

Members' Seminar + *Étale and Crystalline Companions* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

Symplectic Dynamics/Geometry Seminar + *Augmentations and Immersed Exact Lagrangian Cobordisms* + **Yu Pan**, Massachusetts Institute of Technology

Joint IAS/Princeton University Algebraic Geometry Seminar + *The p -Curvature Conjecture in Families* + **Ananth Shankar**, Massachusetts Institute of Technology

April 17

Analysis Seminar + *Loops in Hydrodynamic Turbulence* + **Katepalli Sreenivasan**, New York University; Member, School of Mathematics

Working Group on Geometric Applications of the Langlands Correspondence + *Untitled Talk* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

April 18

Venkatesh Working Group
Joint IAS/Princeton University Number Theory Seminar + *How Does the Rank of an Elliptic Curve Grow in Towers of Number Fields?* + **Florian Sprung**, Arizona State University

Working Seminar in Algebraic Number Theory + *The Galois Side of Fukaya-Kato* + **Gyujin Oh**, Princeton University

Analysis Seminar + *Dimension of the Stationary Measure for Random Matrix Products in $SL_2(\mathbf{R})$* + **Michael Hochman**, Einstein Institute of Mathematics, The Hebrew University of Jerusalem

April 22

Joint IAS/Princeton University Algebraic Geometry Seminar + *Chow Motives, L -Functions, and Powers of Algebraic Hecke Characters* + **Laure Flapan**, Northeastern University and Mathematical Sciences Research Institute

April 24

Working Group on Geometric Applications of the Langlands Correspondence + *Construction of Crystalline Companions I* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

April 25

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Jensen-Polya Program for the Riemann Hypothesis and Related Problems* + **Ken Ono**, Emory University

Variational Methods in Geometry Seminar + *Infinite Solutions of the Singular Yamabe Problem in Spheres via Teichmüller Theory* + **Paolo Piccione**, Universidade de São Paulo

Working Seminar in Algebraic Number Theory + *Galois Side of Fukaya-Kato (continued)* + **Gyujin Oh**, Princeton University

April 29

Joint IAS/Princeton University Algebraic Geometry Seminar + *Nearby Cycles for Parity Sheaves and the Affine Hecke Category* + **Laura Rider**, University of Georgia

April 30

Variational Methods in Geometry Seminar + *The Geometry of Constant Mean Curvature Surfaces in Euclidean Space* + **Giuseppe Tinaglia**, King's College London

May 1

Working Group on Geometric Applications of the Langlands Correspondence + *Construction of Crystalline Companions II* + **Kiran Kedlaya**, University of California, San Diego; Visiting Professor, School of Mathematics

May 2

Venkatesh Working Group

Joint IAS/Princeton University Number Theory Seminar + *Singularities in Reductions of Shimura Varieties* + **Thomas Haines**, University of Maryland

Working Seminar in Algebraic Number Theory + *Galois Side of Fukaya-Kato (continued)* + **Gyujin Oh**, Princeton University

May 6

Analysis Seminar + *Singularity Formation for Some Incompressible Euler Flows* + **Tarek Elgindi**, University of California, San Diego

Joint IAS/Princeton University Algebraic Geometry Seminar + *Hecke Orbits and Foliations* + **Frans Oort**, Universiteit Utrecht

May 9

Joint IAS/Princeton University Number Theory Seminar + *Generalized Hasse-Herbrand Functions* + **Isabel Leal**, New York University

Working Seminar in Algebraic Number Theory + *Applications to Iwasawa Theory of Modular Forms* + **Shilin Lai**, Princeton University

May 16

Informal Group Action Seminar + *A Probabilistic Takens Theorem* + **Yonatan Gutman**, Institute of Mathematics of the Polish Academy of Sciences, Warsaw

May 19

2019 Women and Mathematics + *Terng Course Preview* + **Zihui Zhao**, University of Washington; Member, School of Mathematics + *Uhlenbeck Course Preview* + **Lu Wang**, University of Wisconsin–Madison; Member, School of Mathematics

May 20

2019 Women and Mathematics + *Uniform Rectifiability via Perimeter Minimization* + **Tatiana Toro**, University of Washington + *Terng Lecture Review Session* + *Ancient Solutions to Geometric Flows* + **Panagiota Daskalopoulos**, Columbia University + *Uhlenbeck Lecture Review Session* + *Research Seminars*

May 21

2019 Women and Mathematics + *Uniform Rectifiability via Perimeter Minimization* + **Tatiana Toro**, University of Washington + *Ancient Solutions to Geometric Flows* + **Panagiota Daskalopoulos**, Columbia University + *Viewing of the Presentation of the Abel Prize to Karen Uhlenbeck* + *Terng/Uhlenbeck Lectures Review Session* + *Viscosity Solutions Approach to Variational Problems* + **Daniela de Silva**, Columbia University

May 23

2019 Women and Mathematics + *Uniform Rectifiability via Perimeter Minimization* + **Tatiana Toro**, University of Washington + *Terng Lecture Review Session* + *Ancient Solutions to Geometric Flows* + **Panagiota Daskalopoulos**, Columbia University + *Uhlenbeck Lecture Review Session* + *Research Seminars* + *Ambassador Program Introduction* + **Margaret Readdy**, University of Kentucky + *Ambassador Program Results*

May 24

2019 Women and Mathematics + *Uniform Rectifiability via Perimeter Minimization* + **Tatiana Toro**, University of Washington + *Ancient Solutions to Geometric Flows* + **Panagiota Daskalopoulos**, Columbia University

May 30

Analysis Seminar + *The Inviscid Limit for the Navier-Stokes Equations with Data Analytic Only near the Boundary* + **Fei Wang**, University of Maryland

June 13

Scalar Curvature Seminar + *Stability of the Spacetime Positive Mass Theorem in Spherical Symmetry* + **Marcus Khuri**, Stony Brook University, The State University of New York + *Symmetries of Cosmological Cauchy Horizons with Non-closed Orbits* + **Jim Isenberg**, University

of Oregon + *Symmetries of Cosmological Cauchy Horizons with Non-closed Orbits* + **Jared Speck**, Massachusetts Institute of Technology

School of Natural Sciences

ASTROPHYSICS ACTIVITIES

September 6

Astrophysics Informal Seminar + *Three-Dimensional Cluster Lensing* + **Charles Keeton**, Rutgers, The State University of New Jersey

September 13

Astrophysics Informal Seminar + *Formation of Black Hole Mergers in Dense Stellar Systems* + **Johan Samsing**, Princeton University

September 18

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Radiation-Dominated Black Hole Accretion Flows* + **James Stone**, Princeton University

September 20

Astrophysics Informal Seminar + *A New Wavelength Window into Atmospheric Escape in Exoplanets* + **Antonija Oklopčič**, Harvard-Smithsonian Center for Astrophysics

September 24–25

Modern Inflation Cosmology–2018 + *dS/dS and TT* + **Eva Silverstein**, Stanford University + *The Kreuzer-Skarke Axiverse* + **Liam McAllister**, Cornell University + *Holography and the Space of Inflationary Models* + **Daniel Green**, University of California, San Diego + *Cosmological Correlators from the Boundary* + **Daniel Baumann**, University of Amsterdam + *Cosmological Correlators and Scattering Amplitudes from Combinational Geometry at Infinity* + **Nima Arkani-Hamed**, Professor, School of Natural Sciences + *The Hyperinflation Attractor* + **David Marsh**, University of Cambridge + *Nonperturbative Potentials in Real Time* + **John Stout**, University of Amsterdam + *Swampland, Emergence of Infinite Field Distances, and Inflation* + **Irene Valenzuela**, Utrecht University + *Is it λ or M_{pl} ?* + **Sergei Dubovsky**, New York University + *Cosmological Aspects of a Shift Symmetry* + **Enrico Pajer**, University of Cambridge + *Light Particles with Spin in Inflation* + **Paolo Creminelli**, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy + *Double Soft Gravitons and Asymptotic Symmetries* + **Bart Horn**, Manhattan College + *The Landscape, the Swampland, and the Era of Precision Cosmology* + **Andrei Linde**, Stanford University + *Planck 2018 and dS from 10d* + **Renata Kallosh**, Stanford University + *Uplifts and Flattening* + **Alexander Westphal**, Deutsches Elektronen-Synchrotron (DESY), Universität Hamburg + *Topology of Cosmological Black Holes* + **Mehrdad Mirbabayi**, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, and Stanford University + *$\lambda\varphi^4$ in de Sitter* + **Leonardo**

Senatore, Stanford University, and Victor Gorbenko, Member, School of Natural Sciences + *Improving fNL Constraints with Velocity Field and Lensing Measurements* + **Moritz Münchmeyer**, Perimeter Institute for Theoretical Physics + *Action Principle and Vacuum Decay in General Relativity* + **Thomas Bachlechner**, University of California, San Diego + *A Real-Time Semiclassical Description of Vacuum Decay* + **Jonathan Braden**, University College London + *Intermittent Non-Gaussianity in Reheating* + **Andrei Frolov**, Simon Fraser University + *Beyond Stochastic Inflation during Classical Transverse Instabilities* + **J. Richard Bond**, Canadian Institute for Theoretical Astrophysics, University of Toronto

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *B-Modes from the Early Universe and the Milky Way* + **Raphael Flauger**, University of California, San Diego

September 27

Astrophysics Informal Seminar + *Harnessing Machine Learning to Study Stellar Feedback* + **Stella Offner**, The University of Texas at Austin

October 1

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Massive Neutrinos Leave Fingerprints on Cosmic Voids* + **Christina Kreisch**, Princeton University

October 2

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *The Dynamic Milky Way in the Gaia Era* + **Adrian Price-Whelan**, Princeton University

October 4

Astrophysics Informal Seminar + *DAVs: Red Edge and Outbursts* + **Jing Luan**, Member, School of Natural Sciences

October 9

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Imaging All the Sky All the Time in Search of Radio Exoplanets* + **Gregg Hallinan**, California Institute of Technology

October 11

Astrophysics Informal Seminar + *Looking for Light Relics and Missing Baryons with Cosmological Data* + **Julián Muñoz**, Harvard University

October 16

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Proto-neutron Star Winds: Supernova Diversity, Magnetars, and Heavy Element Nucleosynthesis* + **Todd Thompson**, The Ohio State University; Junior Visiting Professor, School of Natural Sciences

October 18

Astrophysics Informal Seminar + *Gravitational Lenses as High-Resolution Telescopes* + **Anna Barnacka**, Harvard-Smithsonian Center for Astrophysics

October 22

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Cluster Mass Calibration with ACT and KiDS* + **Naomi Robertson**, University of Oxford

October 23

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *New Results in Tests of Gravity with Radio Pulsars* + **Michael Kramer**, Max-Planck-Institut für Radioastronomie

October 25

Astrophysics Informal Seminar + *Searching for New Physics with Gravitational Waves* + **Victor Gorbenko**, Member, School of Natural Sciences

November 1

Astrophysics Informal Seminar + *Simulations of Structure Formation Beyond CDM* + **Simeon Bird**, University of California, Riverside

November 5

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *An Astrometric Search Method for Gravitational Waves with Arbitrary Polarization Modes Using Data from Gaia* + **Deyan Mihaylov**, University of Cambridge

November 6

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Entering an Era of Precision Stellar Astrophysics (or, Fun with Stellar Radii)* + **Keivan Stassun**, Vanderbilt University

November 8

Astrophysics Informal Seminar + *Gravitational Wave Data: Analysis Techniques and Future Prospects* + **Miriam Cabero Müller**, Princeton University

November 13

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Probing Behind the Man in the Moon: Results from NASA's GRAIL Mission* + **Jay Melosh**, Purdue University

November 15

Astrophysics Informal Seminar + *Rare Views of Galaxy Cluster Laboratories* + **Brenda Frye**, The University of Arizona

November 19

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Massive Neutrinos Leave Fingerprints on Cosmic Voids* + **Marco Raveri**, The

University of Chicago + *Exploring a Novel Probe for Cosmology: Cosmic Voids* + **Elena Massara**, Center for Computational Astrophysics, Flatiron Institute

November 20

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *The Dark History of the Early Universe: Seeking Imprints of Dark Matter Interactions on the Cosmic Dawn* + **Tracy Slatyer**, Massachusetts Institute of Technology; Junior Visiting Professor, School of Natural Sciences

November 26

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Galaxy Clusters in the Dark Energy Survey* + **Tom McClintock**, Brookhaven National Laboratory

November 27

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Kinematics of Circumgalactic Gas* + **Crystal Martin**, University of California, Santa Barbara

November 29

Astrophysics Informal Seminar + *The Milky Way's Stellar Streams and Its Galactic Bar* + **Sarah Pearson**, Center for Computational Astrophysics, Flatiron Institute

December 3

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Gas Contents in the Low-Z Universe* + **Seunghwan Lim**, University of Massachusetts

December 4

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *On the Origin of Life: Major Hurdles on the Path from Organic Chemistry to Biochemistry* + **Andrei Lupas**, Max-Planck-Institut für Entwicklungsbiologie

December 6

Astrophysics Informal Seminar + *The Lyman Alpha Forest, DLAs, and Other Absorption Systems as Tracers of Large-Scale Structure* + **Jordi Miralda-Escude**, Universitat de Barcelona; Member, School of Natural Sciences

December 11

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Machine Learning for the Universe: Steps Towards Opening the Black Box* + **Shirley Ho**, Center for Computational Astrophysics, Flatiron Institute

December 13

Astrophysics Informal Seminar + *Minimoons to Planet X: Mapping Solar System Populations with ZTF and LSST* + **Mario Jurić**, University of Washington

December 17

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Neutrinos and Other Light Relics Beyond Their Masses* + **Benjamin Wallisch**, Member, School of Natural Sciences

January 14

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Weak Singularities in Large-Scale Structure: Identification and Workaround* + **Cornelius Rampf**, Observatoire de la Côte d'Azur

February 4

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Multiwavelength Confirmation of Unconfirmed Planck Clusters* + **Steven Boada**, Rutgers, The State University of New Jersey

February 13

Astrophysics Informal Seminar + *A Statistical Solution to the Chaotic, Nonhierarchical Three-Body Problem* + **Nicholas C. Stone**, Columbia University

February 25

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Clarifying the Hubble Constant Tension* + **Stephen Feeney**, Center for Computational Astrophysics, Flatiron Institute

February 28

Astrophysics Informal Seminar + *Dense Regions in Supersonic Isothermal Turbulence* + **Brant Robertson**, University of California, Santa Cruz; Junior Visiting Professor, School of Natural Sciences

March 7

Astrophysics Informal Seminar + *Halometry from Astrometry* + **Ken Van Tilburg**, New York University; Member, School of Natural Sciences

March 14

Astrophysics Informal Seminar + *Conversion Measure of Faraday Rotation-Conversion with FRB Applications* + **Andrei Gruzinov**, New York University

March 21

Astrophysics Informal Seminar + *Black Hole Accretion* + **Charles Gammie**, University of Illinois at Urbana-Champaign

March 28

Astrophysics Informal Seminar + *Signatures of the Early Universe in the BAO Spectrum* + **Benjamin Wallisch**, Member, School of Natural Sciences

April 1

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *The Universe as Seen through a Pulsar Timing Array* + **Tristan Smith**, Swarthmore College

April 4

Astrophysics Informal Seminar + *The Growing Field of Post-Main-Sequence Planetary System Science* + **Dimitri Veras**, University of Warwick

April 11

Astrophysics Informal Seminar + *Planets Big and Small* + **Eve J. Lee**, California Institute of Technology

April 12

Astrophysics Informal Seminar + *Dynamics of Planets Orbiting in the Alpha Centauri AB Stellar System* + **Jack Lissauer**, Ames Research Center, National Aeronautics and Space Administration

April 15

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Are We Ready for Precision Cosmology? General Relativistic Effects and Gauge-Invariant Formalism* + **Jaiyul Yoo**, Center for Theoretical Astrophysics and Cosmology, Institute for Computational Science, Universität Zürich + *Investigating Galactic Thermal Dust Emission* + **Daniel Herman**, University of Oslo

April 18

Astrophysics Informal Seminar + *Prophets of Doom and the Doom of Prophecy: Long-Term Planetesimal Dynamics in the Solar System* + **William Isaac Newman**, University of California, Los Angeles; Member, School of Natural Sciences

April 25

Astrophysics Informal Seminar + *Time-Domain Approaches to Investigating the Tension in H_0* + **Danny Goldstein**, California Institute of Technology

April 29

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Inhomogeneous Initial Conditions and the Start of Inflation* + **Patrick John Fitzpatrick**, Massachusetts Institute of Technology

May 2

Astrophysics Informal Seminar + *The Black Hole Shadow in the M87 Galaxy* + **Dimitrios Psaltis**, Steward Observatory, The University of Arizona

May 3

Astrophysics Informal Seminar + *MUSE and GRAVITY* + **Tim de Zeeuw**, Sterrewacht Leiden; Max-Planck-Institut für Extraterrestrische Physik

May 9

Astrophysics Informal Seminar + *Unfolding the Dynamical and Colorful Lives of Neutron Star Mergers* + **Wen-fai Fong**, Northwestern University

May 13

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *The Neutrino Puzzle: Anomalies, Interactions, and Cosmological Tensions* + **Christina Kreisch**, Princeton University

May 14

Astrophysics Informal Seminar + *What Can We Expect from SRG/eRosita and ART-XC/and Ground-Based Microwave Telescopes Sky Surveys* + **Rashid Sunyaev**, Max-Planck-Institute für Astrophysik; Distinguished Visiting Professor, School of Natural Sciences

May 16

Astrophysics Informal Seminar + *Probing Dark Energy with CHIME* + **Richard Shaw**, The University of British Columbia

May 23

Astrophysics Informal Seminar + *New Opportunities with Future CMB Observations* + **Joel Meyers**, Southern Methodist University

May 30

Astrophysics Informal Seminar + *Black Hole Spin Misalignments in Microquasars* + **Greg Salvesen**, University of California, Santa Barbara

June 3

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Cosmology with Cosmic Voids: Status and Recent Results* + **Alice Pisani**, Princeton University

June 10

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Quasi-isotropic Cycles and Bounces in a Mixmaster Cosmology* + **Chandrima Ganguly**, Dartmouth College

June 20

Astrophysics Informal Seminar + *The Scientific Potential of Third-Generation Gravitational Wave Detectors* + **Salvatore Vitale**, Massachusetts Institute of Technology

HIGH ENERGY THEORY ACTIVITIES

September 12

Physics Group Meeting + *Introduction to "Fractons" and the Haah Code* + **Brian Swingle**, University of Maryland; Junior Visiting Professor, School of Natural Sciences

September 17

High Energy Theory Seminar + *Higher-Form Symmetries in Magnetohydrodynamics, Effective Field Theory, and Holography* + **Saso Grozdanov**, Massachusetts Institute of Technology

September 19

Physics Group Meeting + *Discussion on the OPE Inversion Formula and Related Topics* + **Petr Kravchuk**, Member, School of Natural Sciences

September 21

High Energy Theory Seminar + *d-dimensional SYK, AdS Loops, and 6j Symbols* + **Vladimir Rosenhaus**, Member, School of Natural Sciences

September 26

Physics Group Meeting + *T \bar{T} Deformation* + **Shu-Heng Shao**, Long-term Member, School of Natural Sciences

October 1

High Energy Theory Seminar + *Entanglement Branes and Extended Topological Quantum Field Theory* + **William Donnelly**, Perimeter Institute for Theoretical Physics

October 10

Physics Group Meeting + *Review of the KKLT Construction of de-Sitter Vacua of String Theory* + **Juan Maldacena**, Carl P. Feinberg Professor, School of Natural Sciences

Informal Physics Discussion + *Lorentz Covariant Theories with Causality Violation* + **Harvey Reall**, University of Cambridge

October 11

Informal High Energy Theory Seminar + *Weak Gravity Conjecture from Black Hole Entropy* + **Grant Remmen**, University of California, Berkeley

October 15

High Energy Theory Seminar + *Tree Amplitudes for Some Supersymmetric Theories in Six Dimensions* + **John Schwarz**, California Institute of Technology

October 17

Physics Group Meeting + *Soft Particles and Symmetry* + **Daniel Steven Kapec**, Member, School of Natural Sciences

October 19

High Energy Theory Seminar + *Continuous 2-group Symmetry of 6d N=(1,0) LST and T-dualities* + **Kantaro Ohmori**, Member, School of Natural Sciences

October 24

Physics Group Meeting + *Information Geometry and Machine Learning as Tools for Phenomenology* + **Kyle Cranmer**, New York University; Junior Visiting Professor, School of Natural Sciences

October 29

High Energy Theory Seminar + *The Chiral Algebra Program for 4d Superconformal Field Theories* + **Leonardo Rastelli**, Stony Brook University, The State University of New York

October 31

Physics Group Meeting + *Relative Entropy and Energy Conditions in QFT* + **Nima Lashkari**, Member, School of Natural Sciences

November 2

High Energy Theory Seminar + *T \bar{T} Deformation and Topological Gravity* + **Victor Gorbenko**, Member, School of Natural Sciences

November 7

Physics Group Meeting + *Boundary Entropy in Integrable QFTs* + **Shota Komatsu**, Member, School of Natural Sciences

November 12

High Energy Theory Seminar + *Energy is Entanglement* + **Arvin Shahbazi Moghaddam**, University of California, Berkeley

November 14

Physics Group Meeting + *Nonsupersymmetric D-branes* + **Edward Witten**, Charles Simonyi Professor, School of Natural Sciences

November 16

High Energy Theory Seminar + *M-theory in 4d, N=1 Superspace* + **Katrin Becker**, Texas A&M University; Member, School of Natural Sciences

November 26

High Energy Theory Seminar + *Stringy ER=EPR* + **Daniel Jafferis**, Harvard University

November 28

Physics Group Meeting + *Mapping the Swampland* + **Thomas Rudelius**, Member, School of Natural Sciences

November 30

High Energy Theory Seminar + *Falling Toward Charged Black Holes* + **Ying Zhao**, Member, School of Natural Sciences

December 4–5

Quantum Information and the Structure of Spacetime Workshop + *Flat Entanglement Spectra in Fixed-Area Eigenstates of Quantum Gravity* + **Don Marolf**, University of California, Santa Barbara + *Entanglement Entropy Relations via Holography* + **Veronika Hubeny**, University of California, Davis + *Entanglement as a Connection for Holographic Spacetimes* + **Lampros Lamprou**, Massachusetts Institute of Technology + *Scrambling Time and Causal Structure in a Schwarzschild Black Hole* + **Peter Shor**, Massachusetts Institute of Technology + *A Toy Model of the Information Paradox in Empty Space* + **Suvrat Raju**, International Centre for Theoretical Sciences, Bangalore, India + *Nonperturbative Effects in Jackiw-Teitelboim Gravity* + **Phil Saad**, Stanford University + *Symmetry in QFT and Gravity* + **Hiroshi Ooguri**, Walter Burke Institute for Theoretical Physics, California Institute of Technology, and Kavli Institute for the Physics and Mathematics of the

Universe, The University of Tokyo + *Open Strings on the Rindler Horizon* + **Edward Witten**, Charles Simonyi Professor, School of Natural Sciences + *Comments about $T\bar{T}$ and SYK* + **Herman Verlinde**, Princeton University + *Quantum Chaos and Effective Field Theory* + **Felix Haehl**, The University of British Columbia + *Recovering the QNEC from the ANEC* + **Thomas Faulkner**, University of Illinois at Urbana-Champaign + *Black Hole Entropy and Soft Hair* + **Andrew Strominger**, Harvard University + *Entanglement Wedge Reconstruction and the Hayden-Preskill Protocol* + **Ahmed Almheiri**, Member, School of Natural Sciences + *Constraining Correlation Functions Using Modular Theory* + **Nima Lashkari**, Member, School of Natural Sciences

December 10

High Energy Theory Seminar + *'t Hooft Anomalies, High- T , and Low- T Domain Walls in Adjoint Fermion Theories with (or without) Supersymmetry* + **Erich Poppitz**, University of Toronto

December 12

Physics Group Meeting + *Introduction to Four-Dimensional Chern-Simons Theory* + **Masahito Yamazaki**, Kavli Institute for the Physics and Mathematics of the Universe, The University of Tokyo

December 14

High Energy Theory Seminar + *Higgs Parity, Strong CP Problem, and Unification* + **Keisuke Harigaya**, Member, School of Natural Sciences

December 19

Physics Group Meeting + *Elementary Positive Geometry of Causal Diamonds, Particles, and Strings* + **Nima Arkani-Hamed**, Professor, School of Natural Sciences

January 28

High Energy Theory Seminar + *Under Construction: A Progress Report on a Theory of SUSY Representations* + **S. James Gates, Jr.**, Brown University

January 30

Physics Group Meeting + *Light-Ray Operators in CFT* + **Petr Kravchuk**, Member, School of Natural Sciences

February 6

Physics Group Meeting + *Recovering the QNEC from the ANEC* + **Nima Lashkari**, Member, School of Natural Sciences

February 8

High Energy Theory Seminar + *Gauge Theories for the Cuprates Near Optimal Doping* + **Subir Sachdev**, Harvard University

February 22

High Energy Theory Seminar + *Bridging the Gap between Lattice Models and TQFT* + **Michael Levin**, The University of Chicago

February 25

High Energy Theory Seminar + *Twisted Holography for the $N=4$ Chiral Algebra* + **Kevin Costello**, Perimeter Institute for Theoretical Physics

February 27

Physics Group Meeting + *6d Spinor-Helicity and Superamplitudes* + **Yvonne Geyer**, Member, School of Natural Sciences

March 4

High Energy Theory Seminar + *The Fuzzball Paradigm for Black Holes and Its Possible Implications for Cosmology* + **Samir Mathur**, The Ohio State University

March 13

Physics Group Meeting + *Formation of Compact Structures with Axion Dark Matter* + **Ken Van Tilburg**, New York University; Member, School of Natural Sciences

March 18

High Energy Theory Seminar + *The Interior of Dynamic Vacuum Black Holes and the Strong Cosmic Censorship Conjecture in General Relativity* + **Mihalis Dafermos**, Princeton University

March 20

Physics Group Meeting + *Aspects of One-Matrix Integrals* + **Douglas Stanford**, Long-term Member, School of Natural Sciences

March 22

High Energy Theory Seminar + *Nonperturbative and Doubly Nonperturbative Effects in JT Gravity* + **Douglas Stanford**, Long-term Member, School of Natural Sciences

March 27

Physics Group Meeting + *Supersymmetry, Self-Force, and the Swampland* + **Thomas Rudelius**, Member, School of Natural Sciences

April 1

High Energy Theory Seminar + *The Kreuzer-Skarke Axiverse* + Liam McAllister, Cornell University

April 3

Informal High Energy Theory Seminar + *Some Arithmetic Path Integrals* + Minhyong Kim, University of Oxford

April 5

High Energy Theory Seminar + *Hydrodynamic Charge Transport: Fluctuating Stripes and Magnetophonons* + **Anna Karlsson**, Member, School of Natural Sciences

April 15

High Energy Theory Seminar + *Quantum Epidemiology: Operator Growth, Thermal Effects, and SYK* + **Alexandre Streicher**, University of California, Santa Barbara

April 19

High Energy Theory Seminar + *Anyonic-String/Brane Träumerei: Quantum 4d Yang-Mills Gauge Theories and Time-Reversal Symmetric 5d TQFT* + **Juven Chun-Fan Wang**, Member, School of Natural Sciences

April 24

Physics Group Meeting + *The Current State of Gravitational Wave Searches with LIGO/VIRGO* + **Matias Zaldarriaga**, Professor, School of Natural Sciences

April 26

High Energy Theory Seminar + *Anomalies in the Space of Couplings and Dynamical Applications* + **Clay Cordova**, Long-term Member, School of Natural Sciences

April 29

High Energy Theory Seminar + *Globally Consistent Three-Family Standard Models in F-Theory* + **Mirjam Cvetič**, University of Pennsylvania

May 15

Physics Group Meeting + *Two Important Milestones in the History of the Universe: The Last Scattering Surface, the Black Body Photosphere of the Universe, and Distortions of the CMB Spectrum* + **Rashid Sunyaev**, Max-Planck-Institute für Astrophysik and Space Research Institute, Moscow; Distinguished Visiting Professor, School of Natural Sciences

June 4

Gordon & Betty Moore Foundation Seminar + *Challenging the Pauli Exclusion Principle by Hunting “Impossible” Atoms in the Cosmic Silence* + **Catalina Oana Curceanu**, Laboratori Nazionali di Frascati, Istituto Nazionale di Fisica Nucleare

June 5

Physics Group Meeting + *Geometric Extremization for Supersymmetric AdS_3 and AdS_2 Solutions* + **Jerome Gauntlett**, Imperial College London

June 7

Gordon & Betty Moore Foundation Seminar + *Testing Collapse Models Underground by Searching the Spontaneous Radiation (How To Go from “To Be AND Not To Be” to “To Be OR Not To Be”)* + **Catalina Oana Curceanu**, Laboratori Nazionali di Frascati, Istituto Nazionale di Fisica Nucleare

June 12

Physics Group Meeting + *The Entanglement Wedge of an Evaporating Black Hole* + **Ahmed Almheiri**, Member, School of Natural Sciences

THE SIMONS CENTER FOR SYSTEMS BIOLOGY ACTIVITIES

September 10

Joint Laboratory Meeting + *Spectrum and Mutational Landscape of LFS Tumors* + **Chang Chan**, Rutgers Cancer Institute of New Jersey

October 23

Convergence Cancer Research Meeting + *Ecology of the Tumor Microenvironment* + **Peter Lee**, City of Hope + *Using RNA Seq to Study Tumor Evolution* + **Mickey Atwal**, Cold Spring Harbor Laboratory + *Neoadjuvant Treatment to Drive in Situ Vaccination in Breast Cancers* + **Nitasha Bennett**, Massachusetts Institute of Technology +

October 29

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology + *Scaling Law of Human Memory Recall* + **Misha Tsodyks**, Weizmann Institute of Science

November 2

Joint Laboratory Meeting on p53 + *Mutant p53 Protein Accumulation Promoted by MDM2 Isoforms and BAG Proteins in Cancer* + **Zhaohui Feng**, Rutgers Cancer Institute of New Jersey

December 14

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology + *To Catch and Reverse a Quantum Jump Mid-flight* + **Michel Devoret**, Yale University

January 9

Convergence Cancer Research Meeting + *Deep Learning of the Immune Synapse* + **John-William Sidhom**, Johns Hopkins University

January 11

Joint Laboratory Meeting + *Sexual Dimorphism of SNPs in the Human Population* + **Katya Khramatsova**, The University of Chicago

February 7

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology + *TOPIC: Microbial Communities, Evolution without Species, etc.* + **Mikhail Tikhonov**, Washington University in St. Louis

March 1

Joint Laboratory Meeting + *Applying Methods of Random Matrix Theory to De-noising Biological Data* + **Raúl Rabadán**, Columbia University

March 6

Joint Laboratory Meeting + *Mutant p53 Activates Small GTPase Rac1 as a Novel Mechanism to Promote Tumorigenesis* + **Wenwei Hu**, Rutgers Cancer Institute of New Jersey

April 9

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology + **Rogier Braakman**, Massachusetts Institute of Technology

April 10

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology + **Clement Mouhot**, University of Cambridge

April 11

Governor's Conference on Effective Partnering in Cancer Research + *Utilizing the Totality of Mutagenesis for Clinical Purposes* + **Serena Nik-Zainal**, University of Cambridge + *Connecting TCRs to Antigens* + **Harlan Robins**, Fred Hutchinson Cancer Research Center + *Immune Interactions Predict Cancer Evolution* + **Marta Łuksza**, Icahn School of Medicine at Mount Sinai + *Specificity in Natural and Synthetic Protein Circuits* + **Michael B. Elowitz**, California Institute of Technology + *Probing Metabolic Heterogeneity in Tumors Using Imaging Mass Spectrometry* + **Shawn M. Davidson**, Princeton University

June 19

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology + *Self-Assembly of Multivalent Droplets* + **Jasna Brujic**, New York University

June 25

Convergence Cancer Research Meeting + *Computational Analysis of the Role and Transcriptional Landscape of Nonimmune Stroma in the Progression of Breast Tumor Microenvironment* + **Mickey Atwal**, Cold Spring Harbor Laboratory + *Fractal Dimension, Occupancy, and Hotspot Analyses of B Cell Spatial Distribution in Breast Cancer* + **Claire Yu**, University of California, Irvine + *The Spatial Profile of CD8⁺ T Cells in Triple-Negative Breast Cancer* + **Xuefei Li**, Rice University + *Combination Therapies Using Ivermectin Targeting Multiple Components of the Breast Cancer Tumor Microenvironment* + **Peter Lee**, City of Hope

Prospects in Theoretical Physics 2019 + *Great Problems in Biology for Physicists* + Organizers and lecturers: **Uri Alon**, Weizmann Institute of Science; **Regina Barzilay**, Massachusetts Institute of Technology; **Shelley Berger**, University of Pennsylvania; **Ed Boyden**, Massachusetts Institute of Technology; **Curtis Callan**, Princeton University; Director's Visitor: **Navdeep S. Chandel**, Northwestern University; **Shawn M. Davidson**, Princeton University; **Michael M. Desai**, Harvard University; **Stephen P. Goff**, Columbia University; **Benjamin Greenbaum**, Mount Sinai; **Clyde A. Hutchison, III**, J. Craig Venter Institute; **Edo Kussell**, New York University; **Titia de Lange**, Rockefeller University; **Arnold J. Levine**, Professor

Emeritus, School of Natural Sciences; **Ake T. Lu**, University of California Los Angeles; **Marta Łuksza**, Mount Sinai; **Rémi Monasson**, Centre National de la Recherche Scientifique; **Nick Patterson**, Broad Institute; **Joshua Rabinowitz**, Princeton University; **Raúl Rabadán**, Columbia University; **R. Clay Reid**, Allen Institute for Brain Science; **Harlan Robins**, Adaptive Biotechnologies; **Michael Rosbash**, Brandeis University; **Thomas E. Shenk**, Princeton University; **David Ting**, Harvard Medical School; **Olga Troyanskaya**, Princeton University; **Jedd D. Wolchok**, Memorial Sloan Kettering Cancer Center; and **Charles Zuker**, Columbia University

School of Social Science

September 14

Social Science Orientation Session

Social Science Welcome Party

September 17

Social Science Seminar + *Crisis and Critique: A Discourse on the Method* + **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science

September 24

Social Science Seminar + *The Role of Troublemakers in Times of Crisis* + **Dieter Thomä**, Universität St. Gallen; Member, School of Social Science

September 26

Crisis and Critique Seminar + Introductory Session I

October 1

Social Science Seminar + *The Party of Which People?: The Evolution of the Democrats from Jackson to Obama* + **Michael Kazin**, Georgetown University; Member, School of Social Science

October 8

Social Science Seminar + *Security Crises: Populism, Nationalism, and Threats to Democracy in Europe* + **Mabel Berezin**, Cornell University; Member, School of Social Science

October 9

Crisis and Critique Film Series + *Inside Job*, directed by Charles Ferguson; post-screening discussion led by **Clara Elisabetta Mattei**, The New School; Member, School of Social Science

October 10

Crisis and Critique Seminar + Introductory Session II

October 15

Social Science Seminar + *From Slavery to Precarity? African Labor History and the History of Work in Africa since the Late Nineteenth Century* + **Andreas Eckert**, Humboldt-Universität zu Berlin; Member, School of Social Science

October 17

Colonial Crisis and Anti-colonial Critique + Planning Meeting organized by **Beshara Doumani**, Brown University; Member, School of Social Science

October 19

Academic Mixer, sponsored jointly by the Schools of Social Science and Historical Studies

October 22

Social Science Seminar + *The Power Logic of Justice in China* + **Ji Li**, Rutgers Law School; Member, School of Social Science

October 24

Crisis and Critique Seminar + *Colonial Crisis and Anti-colonial Critique* + Session curated by **Hector Amaya**, University of Virginia, and **Beshara Doumani**, Brown University; Members, School of Social Science

October 29

Social Science Seminar + *The Dictatorship of Capital: Urban Redevelopment and the Question of Violence in Post-authoritarian South Korea* + **Hae Yeon Choo**, University of Toronto; Member, School of Social Science

October 31

Critical Conversations + Introductory Meeting

November 5

Social Science Seminar + *Inequality, Empathy Gulfs, and Social Critique* + **Martin Hartmann**, Universität Luzern; Member, School of Social Science

November 7

Crisis and Critique Seminar + *Political Crises and Street Politics as Critique* + Session curated by **Robin Celikates**, University of Amsterdam, and **Jessica Winegar**, Northwestern University; Members, School of Social Science

Crisis and Critique Film Series + *Clash*, directed by Mohamed Diab; post-screening discussion led by **Munira Khayyat**, The American University in Cairo, and **Jessica Winegar**, Northwestern University; Members, School of Social Science

November 9–10

The Social Sciences in a Changing World Workshop + Organized by **George Steinmetz**, University of Michigan, and **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science

November 12

Social Science Seminar + *Publicity, Violence, and Technological Mediation* + **Hector Amaya**, University of Virginia; Member, School of Social Science

November 14

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Robin Celikates**, University of Amsterdam; Member, School of Social Science

November 19

Social Science Seminar + *Environment: A Disastrous History of the Hydrocarbon Present* + **David Bond**, Bennington College; Member, School of Social Science

November 20

Crisis and Critique Seminar + *The Environmental Crisis* + Session curated by **David Bond**, Bennington College, and **Daniel Aldana Cohen**, University of Pennsylvania; Members, School of Social Science

November 26

Social Science Seminar + *Democracy and the Division of Labor: Outline of a Research Project* + **Axel Honneth**, Goethe-Universität Frankfurt and Columbia University; Distinguished Visiting Professor, School of Social Science

November 28

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Jessica Winegar**, Northwestern University; Member, School of Social Science

December 3

Social Science Seminar + *Crisis, Critique, and Social Change: Towards a Normative-Materialistic Conception* + **Rahel Jaeggi**, Humboldt-Universität zu Berlin; Member, School of Social Science

December 5

Crisis and Critique Seminar + *Hospitality* + Session curated by **Anne McNevin**, The New School; **Sophie Wahnich**, Centre National de la Recherche Scientifique and École des Hautes Études en Sciences Sociales, Paris; and **Greta Wagner**, Goethe-Universität Frankfurt; Members, School of Social Science

Crisis and Critique Film Series + *A Touch of Sin*, directed by Jia Zhang-ke; post-screening discussion led by **Rowena Xiaoqing He**, Saint Michael's College, and **Ji Li**, Rutgers Law School; Members, School of Social Science

December 10

Social Science Seminar + *Uncertainty, Crisis, and Negative Relationships* + **Eva Illouz**, Centre de Sociologie Européenne, Paris, and École des Hautes Études en Sciences Sociales, Paris; Member, School of Social Science

January 23

Crisis and Critique Seminar + *Two Views on Social Criticism* + Curated by **Eva Illouz**, Centre de Sociologie Européenne, Paris, and École des Hautes Études en Sciences Sociales, Paris, **Rahel Jaeggi**, Humboldt-Universität zu Berlin, and **Dieter Thomä**, Universität St. Gallen; Members, School of Social Science

January 28

Conversation on the Yellow Vests + Discussion organized by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, **Sophie Wahnich**, Centre National de la Recherche Scientifique and École des Hautes Études en Sciences Sociales, Paris; Member, School of Social Science, and **Anne-Claire Defosse**, Visitor, School of Social Science

Social Science Seminar + *Democratizing Disobedience: Outline of a Critical Theory of Protest* + **Robin Celikates**, University of Amsterdam; Member, School of Social Science

February 4

Social Science Seminar + *Islam: Three Genealogies* + **Murad Idris**, University of Virginia; Member, School of Social Science

February 5

Crisis and Critique Film Series + *Snowpiercer*, directed by Bong Joon-Ho; post-screening discussion led by **David Bond**, Bennington College, and **Daniel Aldana Cohen**, University of Pennsylvania; Members, School of Social Science

February 6

Crisis and Critique Seminar + *Legitimation Crisis* + Curated by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, and **Axel Honneth**, Goethe-Universität Frankfurt and Columbia University; Distinguished Visiting Professor, School of Social Science

February 11

Social Science Seminar + *In Face of Crisis, Responsibility of Human and Social Sciences: A Detour by Way of the Eighteenth Century and the French Revolution* + **Sophie Wahnich**, Centre National de la Recherche Scientifique and École des Hautes Études en Sciences Sociales, Paris; Member, School of Social Science

February 13

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Denise Brennan**, Georgetown University, and **Michael Kazin**, Georgetown University; Members, School of Social Science

February 25

Social Science Seminar + *Capitalism and Crisis: On the Origins and Rationality of Austerity* + **Clara Elisabetta Mattei**, The New School; Member, School of Social Science

February 27

Crisis and Critique Seminar + *Collective Volume Discussion*

February 28

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Beshara Doumani**, Brown University; Member, School of Social Science

March 4

Social Science Seminar + *Implicated: World-Making and Border Politics* + **Anne McNevin**, The New School; Member, School of Social Science

March 6

Crisis and Critique Seminar + *Moral Economy* + Curated by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science

Crisis and Critique Film Series + *Fire at Sea*, directed by Gianfranco Rosi; post-screening discussion led by **Anne McNevin**, The New School, and **Greta Wagner**, Goethe-Universität Frankfurt; Members, School of Social Science

March 11

Social Science Seminar + *Aesthetics, Politics, and Revolution in Egypt* + **Jessica Winegar**, Northwestern University; Member, School of Social Science

March 13

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Munira Khayyat**, The American University in Cairo; Member, School of Social Science

March 18

Social Science Seminar + *Viral Populism: Antisemitism, Islamophobia, and the Refugee Crisis* + **Dorian Bell**, University of California, Santa Cruz; Member, School of Social Science

March 20

Crisis and Critique Seminar + *Black Radicalism* + Curated by **Robin Celikates**, University of Amsterdam, **Hae Yeon Choo**, University of Toronto, **Anne McNevin**, The New School, and **Jessica Winegar**, Northwestern University; Members, School of Social Science

March 25

Social Science Seminar + *Giving Society a Form: Authoritarian Traces, Neoliberal Threads, and the Force of Concepts* + **Rodrigo Cordero**, Universidad Diego Portales, Santiago; Member, School of Social Science

March 27

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Chitralekha Dhamija**, Jawaharlal Nehru University; Visitor, School of Social Science

April 1

Social Science Seminar + *"Look at the Stones": Towards a Modern History of the Palestinians* + **Beshara Doumani**, Brown University; Member, School of Social Science

April 3

Crisis and Critique Film Series + *Timbuktu*, directed by Abderrahmane Sissako; post-screening discussion led by **Andreas Eckert**, Humboldt-Universität zu Berlin; Member, School of Social Science

April 8

Social Science Seminar + *Follow the Carbon: Climate Change and Inequality in the Twenty-First-Century City* + **Daniel Aldana Cohen**, University of Pennsylvania; Member, School of Social Science

April 9

Crisis and Critique Seminar + *Black Radicalism* + **Charles W. Mills**, The Graduate Center, The City University of New York

April 10

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **David Bond**, Bennington College; Member, School of Social Science

April 15

Social Science Seminar + *China since Tiananmen: History, Memory, and Nationalism* + **Rowena Xiaoqing He**, Saint Michael's College; Member, School of Social Science

April 18

Crisis and Critique Seminar + *Collective Volume Discussion*

April 22

Social Science Seminar + *Helping Refugees: The Moral Economy of Volunteers in Rural Germany* + **Greta Wagner**, Goethe-Universität Frankfurt; Member, School of Social Science

April 24

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Rodrigo Cordero**, Universidad Diego Portales, Santiago; Member, School of Social Science

April 29

Social Science Seminar + *Confronting Carceral State-Making: Undocumented Life in the Era of Mass Deportation* + **Denise Brennan**, Georgetown University; Member, School of Social Science

May 1

Crisis and Critique Seminar + *Collective Volume Discussion*

Crisis and Critique Film Series + *Searching for Lin Zhao's Soul*, directed by Hu Jie + Post-screening discussion led by filmmaker **Hu Jie**

May 6

Social Science Seminar + *The Life of War: Ecologies of Resistance and Survival* + **Munira Khayyat**, The American University in Cairo; Member, School of Social Science

May 8

Colonial Crisis and Anti-colonial Critique + Critical Conversation led by **Hae Yeon Choo**, University of Toronto; Member, School of Social Science

May 13

Social Science Seminar + *An Intellectual and Political History of Urban Poverty in Uruguay (1943–2010): A Global History from a Local Perspective* + **Aldo Marchesi**, Universidad de la República, Uruguay; Member, School of Social Science

May 15

Crisis and Critique Seminar + *Collective Volume Discussion*

May 27–June 1

Summer Program in Social Science Session in Bogotá, Colombia + Organized by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, and **Mara Viveros Vigoya**, Universidad Nacional de Colombia

June 3–9

Summer Program in Social Science Session in Johannesburg, South Africa + Organized by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, and **Sarah Nuttall**, University of the Witwatersrand

Director's Office

September 24

Member Welcome Reception

September 29

Member Family Barbeque

October 2

Princeton Symphony Orchestra Concert + **Daniel Rowland**, **Maja Bogdanović**

October 10

Impact of the Past Lecture + *Applying History in Real Time: A Tale of Two Crises* + **Niall Ferguson**, Stanford University

October 12

Friends Talk + *Uncovering 80 Years of Research into the Near and Middle East at the Institute for Advanced Study* + **Sabine Schmidtke**, Professor, School of Historical Studies

October 17

Friends Dessert with a Member + *How to Test String Theory* + **Thomas Rudelius**, Member, School of Natural Sciences

October 19

Edward T. Cone Concert Series + **Vox Clamantis Choir**

October 20

Edward T. Cone Concert Series and Talk + **Vox Clamantis Choir**

October 26

Public Lecture + *Genes, Patents, and Race: The History of Science as a Bridge Between Disciplines* + **Myles W. Jackson**, Professor, School of Historical Studies; and **Arnold J. Levine**, Professor Emeritus, School of Natural Sciences

November 2

Impact of the Past Lecture + *Policing the Past: The CIA and the Landscape of Secrecy* + **Richard J. Aldrich**, University of Warwick

November 4

Princeton Symphony Orchestra Concert + **Basia Danilow and Colleagues**

November 9

AMIAS Public Lecture + *Jerusalem in Biblical Times: Comments on the Archaeology and History ca. 1350–100 B.C.E.* + **Israel Finkelstein**, Tel Aviv University

November 16

Friends Lunch with a Member + *Our Magnetic Milky Way* + **Susan E. Clark**, Member, School of Natural Sciences

November 30

Edward T. Cone Concert Series + **Zoë Keating**

December 1

Edward T. Cone Concert Series and Talk + **Zoë Keating**

December 6

Friends Breakfast with a Member + *Does Socialism Have a Future in the United States—or Anywhere?* + **Michael Kazin**, Georgetown University; Member, School of Social Science

December 20

Institute Community Holiday Party

January 11

Friends Lunch with a Member + *Deep Learning: A Scientific Perspective* + **Nadav Cohen**, Member, School of Mathematics

February 1

Edward T. Cone Concert Series + **Nicholas Phan**

February 2

Edward T. Cone Concert Series and Talk + **Nicholas Phan**

February 6

Impact of the Past Lecture + *China's Past in its Present and Future: War and the Making of a New Order in Asia, 1937 to the Present* + **Rana Mitter**, University of Oxford

February 8

Friends Talk + *What is Gravitas? The Feminist Quest for Inclusivity in the Arts* + **Judy Brodsky**, Rutgers, the State University of New Jersey; and **Ferris Olin**, Rutgers, the State University of New Jersey

February 22

Friends Lunch with a Member + *Reading Ibn Tufayl in the Modern Middle East: Philosophy, Colonialism, and Political Fantasies* + **Murad Idris**, University of Virginia; Member, School of Social Science

Public Workshop + *Deep Learning: Alchemy or Science?* + **Michael Collins**, Columbia University; **Yann LeCun**, New York University; **Joelle Pineau**, McGill University; **Zachary Lipton**, Carnegie Mellon University; and **Shai Shalev-Shwartz**, Hebrew University of Jerusalem

March 8

Edward T. Cone Concert Series + **Paul Lazar and Sandbox Percussion**

March 9

Edward T. Cone Concert Series and Talk + **Paul Lazar and Sandbox Percussion**

March 14

IAS Einstein Gala

March 15

Friends Lunch with a Member + *Landscapes of St. Gregory: Toward an Ecoarhistory of Medieval Italy* + **Alison Locke Perchuk**, The California State University, Channel Islands; Member, School of Historical Studies

March 17

Princeton Symphony Orchestra Concert + **Verona Quartet**

March 19

Reception for Karen Uhlenbeck in Honor of Her Abel Prize

March 20

Friends Talk + *A Party for Which People? The Democrats from Andrew Jackson to Barack Obama and Beyond* + **Michael Kazin**, Georgetown University; Member, School of Social Science

March 27

Impact of the Past Lecture + *Brexit: "Jolly Old Storm Clouds," Britain and Europe, 1919–2019* + **Patricia Clavin**, University of Oxford

April 4

S.T. Lee Public Lecture + *Stalin at War* + **Stephen Kotkin**, Princeton University

April 7

Princeton Symphony Orchestra Concert + **Chamber Music for Winds**

April 12

Friends Lunch with a Member + *Reinterpreting Political Violence in 20th-Century Europe: A Comparative Perspective* + **Julian Casanova**, Universidad de Zaragoza; Member, School of Historical Studies

Author's Talk + *Louisa Hall in Conversation with Pia de Jong—A Portrait of J. Robert Oppenheimer: Icon and Enigma* + **Louisa Hall** and **Pia de Jong**

April 25

A Conversation on the Intersection of Music, Architecture, and Design + **Gustavo Dudamel** and **Frank Gehry**

Member End of Term Party

April 26

Remembering Irving Lavin 1927–2019

May 3

Public Lecture + *Inward Bound: Discovering and Exploring the Milky Way's Black Hole* + **Scott Tremaine**, Richard Black Professor, School of Natural Sciences

May 4

Public Lecture + *The Power of Self-Learning Systems* + **Demis Hassabis**, DeepMind

May 8

Friends Public Lecture + *Critique of Punitive Reason* + **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science

May 15

Friends Talk + *Nuclear Weapons Policy in the Age of Putin and Xi* + **Walter B. Slocombe**, Under Secretary of Defense for Policy (1994–2001)

May 29

Public Workshop + *The Universe Speaks in Numbers* + **Nima Arkani-Hamed**, Professor, School of Natural Sciences; **Kyle Cranmer**, New York University; Junior Visiting Professor, School of Natural Sciences; **Freeman Dyson**, Professor Emeritus, School of Natural Sciences; **Graham Farmelo**, Director's Visitor; **Thomas Lam**, von Neumann Fellow, School of Mathematics; **Gregory Moore**, Rutgers, the State University of New Jersey; **Karen Uhlenbeck**, Visiting Professor, School of Mathematics; **Edward Witten**, Charles Simonyi Professor in the School of Natural Sciences; **Natalie Wolchover**; and **Robbert Dijkgraaf**, Director and Leon Levy Professor.

May 30

Friends Annual Meeting and Picnic

May 31–June 1

Honoring the Life and Work of Jean Bourgain