

XVIth Hvar Astrophysical Colloquium
 ”ISEST 2018 Workshop”
 24 – 28 September 2018 Hvar, Croatia

Programme

Sunday, September 23, 2018

18:00 – 19:00	Registration
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Monday, September 24, 2018

8:15 – 9:00	Registration
9:00 – 9:30	Opening words

ISEST WG reports chairperson: **M. Temmer**

9:30 – 10:20	J. Zhang: Global Evolution of CMEs from the Sun to the Earth (<i>Plenary talk</i>)
10:20 – 10:40	J. Zhang: Working Group 1 (Data) - Progress Report
10:40 – 11:00	B. Vršnak: Working Group 2 (Theory) - Progress Report
11:00 – 11:20	D. Odstrcil: Working Group 3 (Simulation) - Progress Report

11:20 – 11:50	coffee – break
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ISEST WG reports chairperson: **J. Zhang**

11:50 – 12:10	D. Webb: Working Group 4 (Campaign events) - Progress report
12:10 – 12:30	S. Patsourakos: Working Group 5 (Bs Challenge) - Progresses Report
12:30 – 12:50	O. Malandraki: Working Group 6 (Solar Energetic Particles) - Progress Report
12:50 – 13:10	M. Temmer: Working Group 7 (MiniMax24) - Progress Report

13:10 – 15:30	lunch – break
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Data & Observation related to solar-terrestrial phenomena (WG1 (data), WG5 (Bs challenge) and related abstracts from the General session on Sun & Heliosphere) chairperson: **J. Zhang**

15:30 – 16:00	L. Green: Observations of magnetic flux ropes in the solar atmosphere: what next? (<i>Invited</i>)
16:00 – 16:20	N. Srivastava: Evolution of coronal cavities leading to CMEs
16:20 – 16:40	R. Liu: Identifying the source complexity of a complex ejecta
16:40 – 17:00	A. Veronig: Which factors of an active region determine whether a strong flare will be CME-associated or not?

17:00 – 17:30	coffee – break
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Data & Observation related to solar-terrestrial phenomena (WG1 (data), WG5 (Bs challenge) and related abstracts from the General session on Sun & Heliosphere) chairperson: **A. Veronig**

17:30 – 17:50	T. Mrozek: The catalogue of solar failed eruptions
17:50 – 18:10	T. Kaltman: Features of spectral-polarization dynamics of flare active regions by microwave observations
18:10 – 18:30	D. Sokoloff: Can superflares occur on the Sun? A view from dynamo theory
18:30 – 19:00	Open discussion

19:30	Welcome reception
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Tuesday, September 25, 2018

<i>Data & Observation related to solar-terrestrial phenomena (WG1 (data), WG5 (Bs challenge) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: S. Patsourakos	
9:00 – 9:30	C. Kay: The Effects of Uncertainty on Deflection, Rotation and Bs predictions <i>(Invited)</i>
9:30 – 9:50	K. Dissauer: What can we learn from coronal dimmings about the early evolution of Earth-directed CMEs?
9:50 – 10:10	A. Ruzmaikin: Clustering of Coronal Mass Ejections

10:10 – 10:40	coffee – break
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<i>Data & Observation related to solar-terrestrial phenomena (WG1 (data), WG5 (Bs challenge) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: B. Heber	
10:40 – 11:10	T. Nieves-Chinchilla: Unraveling the internal magnetic configuration of the ICMEs <i>(Invited)</i>
11:10 – 11:30	S. Benella: On the role of the topology of magnetic clouds on galactic cosmic-ray Forbush decreases at energies above 70 MeV
11:30 – 11:50	A. Melkumyan: Statistical analysis of Forbush decreases observed during past five solar cycles and associated to coronal mass ejections or coronal holes
11:50 – 12:10	S. Hofmeister: The dependence of high-speed stream peak velocities and of the Kp index on the positions of their source coronal holes on the Sun
12:10 – 12:40	Open discussion

12:40 – 15:00	lunch – break
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<i>Data & Observation related to solar-terrestrial phenomena (WG1 (data), WG5 (Bs challenge) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: J. Zhang	
15:00 – 15:30	P. Hess: Preparing for the Future of Heliospheric Observations <i>(Invited)</i>
15:30 – 15:50	M. Dosa: Long-term periodicities in the heliospheric magnetic flux density and the effects on planetary space weather
15:50 – 16:10	Y. Yan: Solar Radio Imaging-Spectroscopy and Heliospheric Imager

16:10 – 16:40	coffee – break
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<i>Simulations and theoretical aspects of solar-terrestrial phenomena (WG2 (theory), WG3 (simulation) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: F. Shen	
16:40 – 17:10	C. Shen: Interaction between multiple CMEs and its impact on space weather <i>(Invited)</i>
17:10 – 17:30	T. Amerstorfer: Ensemble prediction of a solar storm arrival at Earth using heliospheric images
17:30 – 17:50	J. Čalogović: DBEM web application for heliospheric propagation of CMEs
17:50 – 18:10	M. Dumbović: Forbush decrease model for expanding CMEs (ForbMod)
18:10 – 18:40	Open discussion

19:00 – 20:30	Poster Session
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Wednesday, September 26, 2018

<i>Simulations and theoretical aspects of solar-terrestrial phenomena (WG2 (theory), WG3 (simulation) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: B. Vršnak	
9:00 – 9:30	D. Odstrcil: Near Real-Time Simulation of Heliospheric Space Weather (<i>Invited</i>)
9:30 – 9:50	F. Shen: Three-dimensional MHD simulation of solar wind using a new boundary treatment: Comparison with in-situ data at Earth

9:50 – 10:20	coffee – break
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<i>Simulations and theoretical aspects of solar-terrestrial phenomena (WG2 (theory), WG3 (simulation) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: D. Odstrcil	
10:20 – 10:40	I. Myshyakov: Influence of the Magnetic Decay Index Spatial Distribution on the Kinematics of the Solar Eruptive Prominence
10:40 – 11:00	I. Piantischsch: Simulation of fast-mode MHD waves interacting with low density regions such as coronal holes
11:00 – 11:20	A. Afanasev: Numerical simulations of coronal loop kink oscillations excited by different driver frequencies
11:20 – 11:50	Open discussion

11:50 – 14:30	lunch – break
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<i>Parker Solar Probe and Solar Orbiter</i> chairperson: M. Temmer

14:30 – 15:15	R. Pinto: Modeling and data analysis tools to support science at the Parker Solar Probe and Solar Orbiter era (including the hands-on-session) (<i>Invited</i>)
15:15 – 15:35	E. Dickson: STIX Software Development at Graz
15:35 – 15:55	B. Heber: GEANT4 simulation of the Helios E6 - Proton contamination of relativistic electron measurements
15:55 – 16:25	Open discussion

18:00	Group visit to fortress "Španjola"
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Thursday, September 27, 2018

<i>Solar energetic particles (WG6 (SEPs) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: O. Malandraki	
9:00 – 9:30	C. Cohen: Solar Energetic Particles: Origin, Acceleration, and Transport (<i>Invited</i>)
9:30 – 9:50	M. Riazantseva: The features of plasma turbulence associated with solar transients
9:50 – 10:10	V. Zharkova: Acceleration of particles in 3D magnetic islands with low plasma density and their diagnostics in the heliosphere
10:10 – 10:30	J. Guo: Challenges of Space Weather and space radiation predictions for human explorations to Mars

10:30 – 11:00	coffee – break
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<i>Event studies using solar-terrestrial data & modeling (WG4 (campaign events) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: D. Webb	
11:00 – 11:30	M. Jin: Sun-to-Earth Modeling of Coronal Mass Ejections with a Global MHD Model: Facilitating Physical Understanding and Space Weather Forecasting (<i>Invited</i>)
11:30 – 11:50	J. I. Campos Rozo: Solar photospheric plasma and magnetic field dynamics: modelling of the temporal evolution of flow motions
11:50 – 12:10	I. Dammasch: Multi-instrument observations of an X9.3 flare
12:10 – 12:30	S. Heinemann: Coronal Hole and Active Region Interaction observed through a CME-HSS Interaction
12:30 – 13:00	Open discussion

13:00 – 17:00	lunch – break
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<i>Event studies using solar-terrestrial data & modeling (WG4 (campaign events) and related abstracts from the General session on Sun & Heliosphere)</i> chairperson: N. Srivastava	
17:00 – 17:30	C. Scolini: Observation-based Sun-to-Earth simulations of geo-effective Coronal Mass Ejections with EUHFORIA (<i>Invited</i>)
17:30 – 17:50	T. Tsvetkov: Dynamic properties of prominence eruptions observed by AIA and LASCO
17:50 – 18:10	T. Podladchikova: CME acceleration and EUV wave kinematics for September 10th 2017 event
18:10 – 18:30	J. Seibezer: Evolution of plasma parameters during the early acceleration phase of the June 13 2010 CME event
18:30 – 19:00	Open discussion

20:00	Conference dinner
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Friday, September 28, 2018

<i>ISEST WG reports</i> chairperson: M. Temmer

10:00 – 10:20	J. Zhang: Working Group 1 (Data) - Summary Report
10:20 – 10:40	B. Vršnak: Working Group 2 (Theory) - Summary Report
10:40 – 11:00	F. Shen: Working Group 3 (Simulation) - Summary Report

11:00 – 11:30	coffee – break
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<i>ISEST WG reports</i> chairperson: B. Vršnak

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11:50 – 12:10	S. Patsourakos: Working Group 5 (Bs Challenge) - Summary Report
12:10 – 12:30	O. Malandraki: Working Group 6 (Solar Energetic Particles) - Summary Report
12:30 – 12:50	J. Zhang: Conclusion & future plans

12:50 – 13:00	Closing words (B. Vršnak)
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