

## INTEGRAL AO21 Observing Programme

Normal Proposals							
Proposal ID	Title	PI	Country	Category	Approved Target	Approved Time [ksec] (1)	Grade
2120001	Regular and frequent INTEGRAL monitoring of the Galactic Bulge region	Kuulkers	Netherlands	Galactic Astronomy	Galactic Bulge Region	604.8	A
2120009	Deep Galactic Anticentre Survey: an INTEGRAL must	Ubertini	Italy	Galactic Astronomy	Galactic Anticentre	2000	A
2120006	Keeping watch over our Galaxy - GPS9	Bazzano	Italy	Galactic Astronomy	Norma and Scutum	2000	A
2120021	INTEGRAL coordinated observations with EHT	Kuulkers	Netherlands	Galactic Astronomy	Sgr A*	600	A
2120031	M81 deep field: INTEGRAL-SRG legacy AGN survey	Mereminskiy	Russian Federation	Extragalactic Astronomy	M81	3200	A
2120016	Radio and Gamma-ray Monitoring of the Andromeda Galaxy	Siegert	Germany	Nucleosynthesis and diff. emission	M31	1000	A
2120024	Dissecting the broad-band continuum of NGC 4151, the brightest Seyfert galaxy in hard X-rays, from XRISM to INTEGRAL	Paltani	Switzerland	Extragalactic Astronomy	NGC4151	720	B
2120017	Positron Annihilation in Globular Clusters	Siegert	Germany	Nucleosynthesis and diff. emission	M15	750	B
2120007	Monitoring the Galactic Centre Region: An INTEGRAL Legacy	Wilms	Germany	Galactic Astronomy	Galactic Centre	1400	B
2120011	Hard X-Ray view of 2024 Periastron Passage of PSR B1259-63	Malyshev	Germany	Galactic Astronomy	PSR B1259-63	750(2)	B
2120025	Observations of the gamma-ray flare from the pulsar binary system PSR B1259-63 occurring in 2024	Yoneda	Germany	Galactic Astronomy	PSR B1259-63	700(2)	B
2120028	Massive star feedback in Orion	Diehl	Germany	Nucleosynthesis and diff. emission	Orion region	2000	C
2120027	A coordinated INTEGRAL/IXPE study of the corona geometry and system inclination in 1E1740.7-2942 and GRS1758-258.	Capitani	Italy	Galactic Astronomy	1E1740.7-2942, GRS1758-258	600	C
2120018	Search for Hard MeV Tails in X-ray- and Radio-Selected AGN	Siegert	Germany	Extragalactic Astronomy	MR 2251-178, NGC 1142	1000	C
2120013	INTEGRAL Monitoring of Long X-ray Bursts	Chenevez	Denmark	Galactic Astronomy	4U 1820-30	(DR)	C
2120036	Galactic Center Field: Deep Exposure in AO-21	Grebenev	Russian Federation	Galactic Astronomy	Galactic Centre Field	(DR)	C
2120020	Broad view on high energy Galactic background: Galactic Center	Sunyaev	Russian Federation	Nucleosynthesis and diff. emission	l=0, b=0 + off position	2050	C
2120014	Monitoring the hard X-ray behavior of the exceptional microquasar Cygnus X-3	Cangemi	France	Galactic Astronomy	Cyg X-3	(DR)	C

Note 1: Proposals marked with (DR) have no direct observing time, but will be amalgamated with other proposals, as possible, to obtain data rights.

Note 2: Data rights of 300ks shared between proposals 2120011 and 2120025



GRB proposals							
Proposal ID	Title	PI	Country	Category	Approved Target	Approved Time [ksec] (3)	Grade
2140006	Proposal for immediate access to the INTEGRAL data during multi-messenger transients	Savchenko	Switzerland	Extragalactic Astronomy	GRB-like event	-	GRB
2140026	Spectral and temporal behaviour of GRBs observed by INTEGRAL	Martin-Carrillo	Ireland	Extragalactic Astronomy	Gamma-ray burst	-	GRB
2140015	Studying the Timing and Spectral Behavior of GRBs in Soft Gamma-rays with IBIS/PICsIT	Rodi	Italy	Extragalactic Astronomy	Gamma-ray burst	-	GRB
2140010	Identification of gamma-ray burst pulses and their spectral evolution in a wide energy band	Minaev	Russian Federation	Extragalactic Astronomy	Gamma-ray burst	-	GRB

Note 3: GRB-like proposals do not have associated dedicated observation time.

Target of Opportunity proposals							
Proposal ID	Title	PI	Country	Category	Approved Target	Approved Time [ksec] (4)	Grade
2140008	INTEGRAL Observations of Classical Novae and the Recurrent Nova T CrB	Hernanz	Spain	Nucleosynthesis and diff. emission	Classical Nova, T CrB	4000	A(TOO)
2140011	Identifying and Characterizing X- and Gamma-ray Counterparts of Gravitational Wave Sources with INTEGRAL and XMM	Götz	France	Extragalactic Astronomy	Gravitational Wave event	1360	A(TOO)
2140012	Searching For New Cyclotron Lines in Transient Pulsars	Kreykenbohm	Germany	Galactic Astronomy	Transient Pulsar	400	A(TOO)
2140016	Focussing onto the gamma-ray emission of Black Hole Transients in the bright hard state	Del Santo	Italy	Galactic Astronomy	Black Hole Low-Mass X-ray Binary transient	680	B(TOO)
2140020	ToO investigation of the thermonuclear activity from an X-ray Burster	Chenevez	Denmark	Galactic Astronomy	4U 1820-30	200	B(TOO)
2140003	Tidal disruption events caught by INTEGRAL	Panessa	Italy	Extragalactic Astronomy	Tidal Disruption Event (TDE)	200	B(TOO)
2140014	ToO to Follow-up PBC J2333.9-2343 with INTEGRAL and SWIFT during Outburst	Hernandez-Garcia	Chile	Extragalactic Astronomy	PBC J2333.9-2343	865	B(TOO)
2140021	Hunting high-energy flares in radio-weak BL Lacs	Bruni	Italy	Extragalactic Astronomy	Fermi J1544-0649, WISE J064459.38+603131.7, WISE J141046.00+740511.2	1360	B(TOO)
2140022	A Possible SMBH Merger in SDDSJ1420+2303	Rodi	Italy	Extragalactic Astronomy	SDDSJ1420+2303	850	B(TOO)
2140004	Radioactivity gamma rays from SN Ia	Diehl	Germany	Nucleosynthesis and diff. emission	Supernova Ia	3000(5)	B(TOO)
2140007	Unveiling the Physics of Type Ia Supernovae	Isern	Spain	Nucleosynthesis and diff. emission	Supernova Ia	2000(5)	B(TOO)
2140027	Study of Close Supernovae with INTEGRAL in AO-21	Grebenev	Russian Federation	Nucleosynthesis and diff. emission	Supernova	2000(5)	B(TOO)
2140005	INTEGRAL-NuSTAR observation of an Ultra Compact X-ray Binaries in outburst	Fiocchi	Italy	Galactic Astronomy	Ultra-compact Binary	300	B(TOO)
2140002	INTEGRAL observation of 1H 1426+428: the hunt for the synchrotron peak	Malizia	Italy	Extragalactic Astronomy	1H 1426+428	510	B(TOO)
2140019	Study of the corona geometry and system inclination in BH LMXB. A coordinated IXPE/INTEGRAL ToO observation	Capitanio	Italy	Galactic Astronomy	Black Hole Low-Mass X-ray Binary transient	600	B(TOO)
2140028	Studying the Soft Gamma-ray Emission of the Seyfert NGC 4151	Rodi	Italy	Extragalactic Astronomy	NGC 4151	1000	B(TOO)

Note 4: For several TOO proposals, the approved time is an upper limit depending on the results of the observations or is the sum of the granted triggers.

Note 5: In the case of a SNIa, proposals 2140004, 2140007 and 2140027 will share the same observations.

