

## HCT Accepted Proposal : Cycle 03-2022

PROPOSAL	TITLE	PI	AFFILIATION	INSTRUMENT	DATE
P01	Time-series CCD photometry of Globular Clusters	Sunetra Giridhar	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	November 27
P02	Exploring the Nature of Nine Magnetic Cataclysmic Variable Candidates through Optical Spectroscopy	Nikita Rawat	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	HFOSC	October 31
P03	Optical and NIR observations of nearby core-collapse supernovae from the photospheric to late phase	Rishabh Singh Teja	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	September 01, October 03, November 02, December 16
P04	Probing the optical properties of four probable non-magnetic CVs	Arti Joshi	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	November 25, 26
P05	The origin of Lithium enrichment in red giants	Hema B P	Indian Institute of Astrophysics (IIA), Bengaluru	HESP	September 07 November 14
P06	High-resolution spectroscopic studies of newly discovered Hydrogen-deficient carbon stars for investigating their origin	Gajendra Pandey	Indian Institute of Astrophysics (IIA), Bengaluru	HESP	September 17, November 14
P07	The Triton stellar occultation of 6 October 2022	Anandmayee Tej	Indian Institute of Astrophysics (IIA), Bengaluru	TIRSPEC	October 05, 06
P08	H <sub>2</sub> Fluorescence in a cometary cloud LBN437: Extending the experiment on investigating dust grain alignment in the ISM	Archana Soam	Indian Institute of Astrophysics (IIA), Bengaluru	TIRSPEC	September 02, 03
P09	Early Solar System Remnants: Solar System Formation and Forming Habitable Worlds	Karen Meech	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	December 20
P10	Tracking the spectral evolution of Tidal disruption events	Suvendu Rakshit	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	HFOSC	ToO
P11	Post-Outburst Phase of LDN1415 Nebula (IRAS 04376+5413)	Koshvendra Singh	Tata Institute of Fundamental research (TIFR), Mumbai	HFOSC & TIRSPEC	October 02,
P12	In the search of GRB optical afterglows and relativistic candidates	Harsh Kumar	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC & TIRSEPC	ToO
P13	ToO observations of core-collapse supernovae (CC-SNe)	Firoza Sutariya	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC, TIRSPEC & HESP	ToO
P14	The low-mass IMF and binary fraction of Young Star Clusters	Priya Hasan	Maulana Azad National Urdu University, Hyderabad, India	HFOSC	November 15
P15	ToO observations of SNe imposters and violent transients.	Firoza Sutariya	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC, TIRSPEC & HESP	ToO
P16	Geometric distances to the super massive black hole in AGNs: Reverberation mapping Monitoring	Shivangi Pandey	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	HFOSC	October 04,10,18,26 November 02,10,17,21,30 December 06,13,19,27
P17	Observations of Low Redshift Supernovae and other related transients	Dr. Devendra Sahu	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC & TIRSPEC	ToO
P18	Search for short-duration variability and microlensing by low-mass objects in	Margarita Safonova	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	September 04,

	globular clusters				
P19	Observations of extragalactic novae in outburst	Judhajeet Basu	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC & TIRSPEC	ToO
P20	Spectroscopy of carbon enhanced metal-poor stars: Optical and Near Infrared	Partha Pratim Goshwami	Indian Institute of Astrophysics (IIA), Bengaluru	TIRSPEC & HESP	October 05, 23
P21	Observations of imminent impactors and risky NEOs	Toni Santana-Ros	Institut de Ciències del Cosmos de la Universitat de Barcelona (ICCUB)	HFOSC	ToO
P22	Phase-dependent Photometric and Spectroscopic Study of Asymptotic Giant Branch Stars	Supriyo Ghosh	Tata Institute of Fundamental research (TIFR), Mumbai	HFOSC & TIRSPEC	October 14, November 11,12
P23	Chemical peculiarity among the bright metal poor stars: estimation of C,N,Mg, Sr & Ba using HFOSC spectroscopy	Pallavi Saraf	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	December 13,14
P24	HESP GOMPA (Galactic survey Of Metal Poor stArs) survey of bright poor stars	Pallavi Saraf	Indian Institute of Astrophysics (IIA), Bengaluru	HESP	September 28,29
P25	Characterizing the photospheres of and dust towards JWST targets (galactic OB stars) using optical spectra with HFOSC/HCT	Mayank Narang	Tata Institute of Fundamental research (TIFR), Mumbai	HFOSC	September 05,06
P26	Spectroscopic study of blue straggler stars of Berkeley 17	Khushboo K. Rao	Birla Institute of Technology and Science Pilani - Pilani Campus	HFOSC	December 30
P27	HESP Spectroscopic Survey of optically visible protostars	Mayank Narang	Tata Institute of Fundamental Research (TIFR), Mumbai	HESP	November 03,04
P28	Photometric (optical/NIR) and spectroscopic (optical/NIR) monitoring of FU Ors and EX Ors Eruptive Young Stellar Objects (MFES)	Arpan Ghosh	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	HFOSC & TIRSPEC	September 18, October 02, November 29
P29	Characterizing accretion processes in newly identified T-Tauri stars using HFOSC/HCT	Prasanta Kumar Nayak	Tata Institute of Fundamental Research (TIFR), Mumbai	HFOSC	September 05
P30	Himalayan Optical Spectroscopic Survey of Protostars	Mayank Narang	Tata Institute of Fundamental Research (TIFR), Mumbai	HFOSC	October 13
P32	Probing Protostellar Photospheres and Accretion Evolution with TIRSPEC	Himanshu Tyagi	Tata Institute of Fundamental Research (TIFR), Mumbai	TIRSPEC	September 06, October 12
P33	REMAP: An optical - infrared monitoring program at the HCT to constrain the torus size - luminosity relation in AGN	Amit Kumar Mandal	Seoul National University, Seoul, South Korea	HFOSC & TIRSPEC	September 01,07,12,19,28, October 03,08,16,21,25,30
P34	Spectroscopic and photometric studies of the pre-main-sequence stars in the two star-forming regions.	Siddhartha Bishwas	S. N. Bose National Centre for Basic Science	HFOSC	October 15
P35	Follow-up observations of core-collapse supernovae.	Firoza Sutariya	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	September 24, October 22, December 21
P36	Transit spectroscopy of hot Jupiter host stars	Athira Unni	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	September 20, October 24, December 17,29

P37	Probing the host environment and related luminosity distribution of type Iax SNe	Mridweeka Singh	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	November 26, December 22
P38	Solving a mystery of the least-studied group of objects with the B[e] phenomenon	Ashish Raj	University of Delhi	HFOSC & HESP	September 12
P39	High resolution Spectroscopic study of low mass red giants of before and after He-flash phases	Anohita Mallick	Indian Institute of Astrophysics (IIA), Bengaluru	HESP	October 20,21, November 30, December 01
P40	Photometric and spectroscopic monitoring of thermonuclear supernovae (SNe) from the photospheric to nebular phase	Anirban Dutta	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	September 25, October 28, November 21, December 31
P41	Stellar Variability and Magnetic Activity of M-dwarfs: Optical and NIR Spectroscopic Studies	Diya Ram	S. N. Bose National Centre for Basic Science	HFOSC & TIRSPEC	September 15,16
P42	Photometric Variability in Young Brown Dwarfs to Probe their Atmospheric Properties	Rajib Kumbhakar	S. N. Bose National Centre for Basic Science	HFOSC & TIRSPEC	December 02,04
P43	Optical and Near-IR observations of Wolf Rayet Stars	Subhajit Kar	S. N. Bose National Centre for Basic Science	HFOSC, TIRSPEC & HESP	September 14,16
P44	Survey of Hydrogen deficient Carbon stars in northern hemisphere using GAIA DR3	Bharat Kumar Yerra	Indian Institute of Astrophysics, Bengaluru	HFOSC	September 13, November 03,04
P46	Deep host galaxy template imaging of supernovae fields	Bhavya Aillawadhi	Aryabhata Research Institute of Observational Sciences (ARIES)	HFOSC	December 23
P47	Investigating accretion variability in T-Tauri stars using HFOSC/HCT	Prasanta Kumar Nayak	Tata Institute of Fundamental research (TIFR), Mumbai	HFOSC	September 18, October 06
P48	Optical and Near Infrared study of Cataclysmic Variables	Gesesew Reta Habtie	S. N. Bose National Centre for Basic Science	HFOSC, TIRSPEC & HESP	December 03,04
P49	Spectroscopic studies of Milky Way satellite galaxies	Devika K Divakar	Bangalore University	HFOSC	October 27, December 24, 25
P50	Monitoring the extreme cases of broad absorption line variability in AGN	Vivek M	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	October 29,30, December 19
P51	H <sub>α</sub> imaging of Seyfert type AGN	Payel Nandi	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	October 25,26, November 18,19
P52	Monitoring quasars with extreme spectral index variations	Sarath SS	Christ University, Bangalore	HFOSC	December 18
P53	Late-time spectroscopic follow-up of four recent supernovae	Bhavya Aillawadhi	Aryabhata Research Institute of Observational Sciences (ARIES)	HFOSC	September 27, November 28
P54	Photometric and spectroscopic study of late-decline and quiescent phases of novae.	Neeraj Rawat	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	October 01,19 November 16 December 15
P55	To study the AGN feedback in the nearby active galaxies using photometric and spectroscopic observations	Debbijoy Bhattacharya	Manipal Centre for Natural Sciences, Manipal Academy of Higher Education, Karnataka, India	HFOSC	September 26, December 26

P56	NIR study of young embedded cluster and HII region	Hemeen Kaur	Department of Physics, Kumaun University	TIRSPEC	November 28
P57	Helium enhancement in cool stars of open clusters	Geeta Rangwal	Indian Institute of Astrophysics (IIA), Bengaluru	HESP	September 30, October 17
P58	Relation between accretion outbursts and 6.7 GHz methanol maser flares in massive young stellar objects	Sonu Tabitha Paulson	Indian Institute of Space Science and Technology (IIST)	TIRSPEC	October 14, November 11
P59	Optical and near infrared spectroscopy of symbiotic stars	Sonith LS	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC & TIRSPEC	September 21, October 01, November 20, December 10
P60	Optical follow-up of the misaligned DDRG LEDA 884893: a binary AGN candidate	Ayan Biswash	National Centre for Radio Astrophysics (NCRA), Pune	HFOSC	September 02
P61	Himalayan Optical Spectroscopic Survey of Giant Planet Hosting Bright Stars (HOSS-GPS)	Bihan Banerjee	Tata Institute of Fundamental research (TIFR), Mumbai	HFOSC	November 05
P62	Monitoring of night sky at IAO, Hanle.	Dr. Devendra Sahu	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC	September 19, October 16, November 13, December 11
P63	Photometric and Spectroscopic study of MIR bubble	Aayushi verma	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	HFOSC & TIRSPEC	December 12
P64	Identifying Quasars behind the Galactic Plane at $ b  \leq 5$ deg	Ravi Joshi	Indian Institute of Astrophysics	HFOSC	November 23, 24
P66	HESP survey of R-Process Enhanced metal-poor stars - the HESP R-Process Alliance	Avrajit Bandyopadhyay	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	HESP	October 18, December 27
P67	Optical spectroscopic observations of bright Fermi detected blazar candidates of uncertain type	Bhoomika Rajput	Christ University, Bangalore	HFOSC	September 03, November 01
P68	Spectroscopy of UV bright stars in open clusters	Geeta Rangwal	Indian Institute of Astrophysics (IIA), Bengaluru	HESP	September 23
P69	Observations of novae and symbiotic stars in outburst	Sonith LS	Indian Institute of Astrophysics (IIA), Bengaluru	HFOSC, TIRSPEC & HESP	ToO
P70	Optical spectroscopic/imaging observations of comets from different reservoirs	Shashikiran Ganesh	Physical Research Laboratory (PRL), Ahmedabad	HFOSC & HESP	October 04, November 22,23
P71	RR Lyrae stars in the dwarf satellites of the Milky Way using the HCT and Gaia: Ursa Minor dSph	Avrajit Bandyopadhyay	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	HFOSC	December 28