ISSI-BJ Workshop on *Space-based Stellar Astrophysics in the Ultraviolet*

**Preliminary programme (v. 2)**

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| **Monday 14 April 2025** | | | |
| 1. ***Morning session*** | | | |
| 09:00–09:10 | Richard de Grijs (Macquarie University, Australia; ISSI-BJ) | Welcome and Introduction |  |
| 09:10–09:40 | Durgesh Tripathi (IUCAA, Pune, India) | The Sun in the Near Ultraviolet |  |
| 09:40–10:10 | Ying Li (Purple Mountain Observatory, China) | Solar flares at ultraviolet wavelengths |  |
| **10:10–10:40** | **Coffee break** | | |
| 10:40–11:00 | Li Feng (Purple Mountain Observatory, China) | Understanding Solar Eruptions with observations in the UV Lyman-α window |  |
| 11:00–11:30 | Peng-Fei Chen (Purple Mountain Observatory, China) | UV Spectral Signatures of Solar/Stellar Filament Eruptions |  |
| 11:30–11:50 | Xianyong Bai (National Astronomical Observatories, Chinese Academy of Sciences, China) | The Solar Upper Transition Region Imager (SUTRI) Onboard the *SATech-01* Satellite |  |
| **11:50–13:00** | **Lunch at the NSSC cafeteria** | | |
| 1. ***Afternoon session*** | | | |
| 13:00–13:30 | Xiaoting Fu (Purple Mountain Observatory, China) | Stellar modelling with the help of the UV high-resolution stellar spectral library |  |
| 13:30–14:00 | Gajendra Pandey (Indian Institute of Astrophysics, India) | High-resolution spectroscopy of hot stars in UV |  |
| 14:00–14:30 | Hui Tian (Peking University, China) | EUV observations of stellar coronal activity |  |
| **14:30–15:00** | **Tea break** | | |
| 15:00–15:30 | Yu Xu (Peking University, China) | Solar and Stellar CMEs in EUV spectroscopy: Observations and Simulations | YS |
| 15:30–16:00 | Louise Harra (PMOD/WRC and ETH-Zürich, Switzerland) | Review of the Sun at UV/EUV wavelengths | online |
| 16:00–16:30 | Frédéric Auchère (Institut d’Astrophysique Spatiale, France) | Extreme ultraviolet observations of the Sun from space: a review and future prospects | online |
| 16:30–17:00 | Giulio Del Zanna (University of Cambridge, UK) | Modelling the chromosphere/transition regions of the Sun and Stars and review of spectral diagnostics | online? |
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| **Tuesday 15 April 2025** | | | |
| 1. ***Morning session*** | | | |
| 09:00–09:20 | Firoza Sutaria (Indian Institute of Astrophysics, India) | A UV imaging study of the Cygnus loop |  |
| 09:20–09:40 | Matti Dorsch (University of Potsdam, Germany) | Far-UV spectroscopy of hot subdwarf stars: nucleosynthesis and binary stellar evolution | YS |
| 09:40–10:10 | Stephan Geier (University of Potsdam, Germany) | Multi-band surveys of hot evolved stars |  |
| **10:10–10:30** | **Coffee break** | | |
| 10:30–11:00 | Nicole Reindl (Heidelberg University, Germany) | On the importance of UV spectroscopy for the study of hot (pre-)white dwarfs |  |
| 11:00–11:30 | Sheng-Bang Qian (Yunnan University, China) | Investigations of Gravitational Radiation and Triplicity of sdOB-type binaries based on space-based data |  |
| 11:30–12:00 | Kevin France (University of Colorado, USA) | UV and X-ray Observations of Rocky Planet Host Stars: Inputs for Atmospheric Photochemistry and Escape Calculations |  |
| **12:00–13:20** | **Lunch at the NSSC cafeteria** | | |
| 1. ***Afternoon session*** | | | |
| 13:20–13:50 | Sivarani Thirupathi (Indian Institute of Astrophysics, India) | Stellar Archaeology in the UV |  |
| 13:50–14:10 | Ada Canet (Universidad Complutense de Madrid, Spain) | Star–planet interactions at ultraviolet wavelengths: Prospects of detection | YS |
| 14:10–14:40 | Yong Zhang (Sun Yat-sen University, China) | Does the electron energy in planetary nebulae follow κ (kappa) or Maxwellian distributions? |  |
| **14:40–15:10** | **Tea break** | | |
| 15:10–15:35 | Deepak Chahal (Macquarie University, Australia) | Photometric Activity Cycles in Fast-rotating stars: Revisiting the reality of stellar activity cycle branches | YS |
| 15:35–16:00 | Xuan Fang (National Astronomical Observatories, Chinese Academy of Sciences, China) | *Hubble Space Telescope*/STIS UV Spectroscopy of Galactic Planetary Nebulae |  |
| 16:00–16:30 | Giovanna Tinetti (UCL, Blue Skies Space Ltd, UK) | Monitoring and understanding stellar flares and activity |  |
| 16:30–17:00 | Coralie Neiner (Paris Observatory, France) | UV spectropolarimetry to study stellar magnetospheres | online |
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| **Wednesday 16 April 2025** | | | |
| 1. ***Morning session*** | | | |
| 09:00–09:30 | Alexandre Vazdekis (Instituto de Astrofísica de Canarias, Spain) | Modelling the integrated light of the stellar populations in the NUV and FUV spectral ranges |  |
| 09:30–10:00 | Li Ji (Purple Mountain Observatory, China) | High-energy spectroscopy for stellar activities |  |
| 10:00–10:30 | Martin Barstow (University of Leicester, UK) | Future missions in the EUV and UV |  |
| **10:30–11:00** | **Coffee break** | | |
| 11:00–11:30 | Quentin Parker (University of Hong Kong, Hong Kong SAR) | Science from the concept for a new UV Space Astronomy Project initiative between HKU and relevant CAS institutes |  |
| 11:30–12:00 | Chengyuan Li (Sun Yat-sen University, China) | Stellar populations in star clusters |  |
| **12:00–13:00** | **Lunch at the NSSC cafeteria** | | |
| **Free afternoon** | | | |
| **Thursday 17 April 2025** | | | |
| 1. ***Morning session*** | | | |
| 09:00–09:30 | Annapurni Subramaniam (Indian Institute of Astrophysics, India) | A summary of star cluster studies using UVIT on *AstroSat* |  |
| 09:30–09:55 | Snehalata Sahu (University of Warwick, UK) | GlobULeS: Globular cluster UVIT legacy survey with *Astrosat* |  |
| 09:55–10:20 | Sipra Hota (Indian Institute of Astrophysics, India) | Kinematics and Morphology of the Young Population in the Small Magellanic Cloud: Insights from UVIT | YS |
| **10:20–10:50** | **Coffee break** | | |
| 10:50–11:20 | Kaushar Vaidya (Birla Institute of Technology and Science Pilani, India) | A UV-guided Study of Blue Straggler Stars of Open Clusters and Galactic Fields |  |
| 11:20–11:50 | Samyaday Choudhury (Ahmedabad University, India) | Studying extragalactic star clusters and star formation using UVIT/*AstroSat* |  |
| **11:50–13:00** | **Lunch at the NSSC cafeteria** | | |
| 1. ***Afternoon session*** | | | |
| 13:00–13:30 | Vikrant Vinayak Jadhav (University of Bonn, Germany) | Impact of UV imaging on accurate characterization of binary systems |  |
| 13:30–14:00 | Shingo Kameda (Rikkuo University, Japan) | *LAPYUTA* mission – a 60 cm FUV space telescope |  |
| 14:00–14:30 | Jifeng Liu (National Astronomical Observatories, Chinese Academy of Sciences, China) | **[please provide title]** |  |
| **14:30–15:00** | **Tea break** | | |
| 15:00–15:30 | Norbert Werner (Masaryk University, Czech Republic) | *QUVIK* – Quick Ultra-Violet Kilonova Surveyor |  |
| 15:30–16:00 | Benjamin Wilcock (Blue Skies Space Ltd, UK) | *Mauve*, a small ultraviolet and visible spectrophotometry satellite and its applications in time-domain stellar spectroscopy |  |
| 16:00–16:30 | Andrew Battisti (ICRAR and Australian National University, Australia) | Ultraviolet Extinction Sky Survey (*UVESS*): A mission concept for probing the interstellar medium in the Milky Way and Local Group galaxies |  |
| 16:30–17:00 | Dipankar Banerjee (ARIES, India) | **[please provide title]** |  |
| **Friday 18 April 2025** | | | |
| 1. ***Morning session*** | | | |
| 09:00–09:30 | Mikhail Sachkov (Institute of Astronomy, RAS, Russia) | The *SPECTR-UF* mission |  |
| 09:30–10:00 | Ana I. Gomez de Castro (Universidad Complutense de Madrid, Spain) | **[please provide title]** |  |
| 10:00–10:30 | Chao Liu (National Astronomical Observatories, Chinese Academy of Sciences, China) | What can the Chinese Space Station Telescope achieve by combining UV with optical bands? |  |
| **10:30–11:00** | **Coffee break** | | |
| 11:00–11:30 | Zhaosheng Li (Xiangtan University, China) | **[please provide title]** |  |
| 11:30–12:00 | *Speakers t.b.d.* | Discussion session |  |
| **12:00–13:20** | **Lunch at the NSSC cafeteria** | | |
| 1. ***Afternoon session*** | | | |
| 13:20–14:00 | *Speakers t.b.d.* | Discussion session continued |  |
| 14:00–15:00 | Richard de Grijs (coordination) | Preparation for the drafting of the review papers |  |