

# **Galactic Frontiers 2026: Advancing X-Ray Astronomy in a Multiwavelength Universe**

**858. WE-Heraeus-Seminar**

**14 - 18 June 2026**

**at the Physikzentrum Bad Honnef, Germany**

**WILHELM UND ELSE  
HERAEUS-STIFTUNG**



# Program

**Sunday, 14 June 2026**

17:00 - 21:00    Registration

18:30 - 20:00    *BUFFET SUPPER and informal get-together*

# Program

**Monday, 15 June 2026**

07:30 - 08:30	<i>BREAKFAST</i>	
08:30 - 08:45	Werner Becker/ Manami Sasaki	<b>Welcome &amp; Introduction</b>
08:45 - 09:00	Stefan Jorda	<b>About the Wilhelm and Else Heraeus Foundation</b>
<b>Morning Session: Stars &amp; Stellar Evolution</b>		
09:00 - 09:45	Christian Schneider	<b>X-rays from low-mass stars</b>
09:45 - 10:30	Yaël Nazé	<b>X-ray studies of massive stars</b>
10:30 - 11:00	<i>COFFEE BREAK</i>	
11:00 - 11:20	Sebastian Freund	<b>Coronal and chromospheric activity observed by eROSITA and Gaia</b>
11:20 - 11:40	Bhawna Mukhija	<b>Multiple Giant Eruptions in Massive Stars Before Core Collapse</b>
11:40 - 12:00	Gloria Sala	<b>The X-ray future of nova explosions</b>
12:00 - 12:30	<b>Poster Flash Talks</b>	
12:30 - 12:40	CONFERENCE PHOTO (in front of the main entrance)	
12:40 - 14:00	<i>LUNCH</i>	

# Program

**Monday, 15 June 2026**

## **Afternoon Session: Compact Objects**

14:00 - 14:45	Anna Watts	<b>What we know - and don't know - about neutron stars</b>
14:45 - 15:30	Marta Burgay	<b>Searching for pulsars with MeerKAT</b>
15:30 - 16:00	<i>COFFEE BREAK</i>	
16:00 - 16:20	Bettina Posselt	<b>Faint but important - the role of UVOIR observations in understanding neutron star physics</b>
16:20 - 16:40	Hsiang-Kuang Chang	<b>Observational correlations among spectral properties of X-ray and gamma-ray emissions from pulsars</b>
16:40 - 17:00	Sayantana Bhattacharya	<b>Multiwavelength Characteristics of The Wolf-Rayet + Black Hole High Mass X-ray Binary : IC 10 X-1</b>
17:00 - 17:20	Chuanyu Wei	<b>How do the thermonuclear X-ray bursts affect the accretion flow?</b>
17:20 - 18:00	<b>Poster Flash Talks</b>	
18:00 - 20:00	<i>DINNER</i>	

# Program

**Tuesday, 16 June 2026**

07:30 - 09:00 *BREAKFAST*

## **Morning Session: Supernova Remnants**

- |               |                           |  |
|---------------|---------------------------|--|
| 09:00 - 09:45 | Robert Fesen              | <b>Discovery of Galactic Supernova Remnants via Deep Optical Imaging</b>                         |
| 09:45 - 10:30 | Anne Decourchelle         | <b>Studies of supernova remnants in the X-ray</b>  |
| 10:30 - 11:00 | <i>COFFEE BREAK</i>       |  |
| 11:00 - 11:20 | Silvia Mantovanini        | <b>SNR Searches with SKA Precursor Radio Surveys</b>   |
| 11:20 - 11:40 | Federico Zangrandi        | <b>Supernova Remnants in the Large Magellanic Cloud</b>  |
| 11:40 - 12:00 | Manan Agarwal             | <b>Latest XRISM Insights into the Explosion Asymmetry and Ejecta Composition of Cassiopeia A</b> |
| 12:00 - 12:30 | <b>Poster Flash Talks</b> |  |
| 12:30 - 14:00 | <i>LUNCH</i>              |  |

# Program

**Tuesday, 16 June 2026**

14:00 - 14:20	Dominique Meyer	<b>Plerionic supernova remnants</b>
14:20 - 14:40	Marie Prucker	<b>Hydrodynamic Simulations of the Supernova Remnant Puppis A with PLUTO</b>

**Afternoon Session: Observations of Extended Galactic Structures by International Amateur Astronomy Networks**

14:40 - 15:30	Steeve Body / Carl Björk/ Tim Schaeffer	<b>From Pixels to Publications: A Collaborative Approach to High-Resolution Deep Space Imaging and Discovery</b>
15:30 - 16:00	<i>COFFEE BREAK</i>	
16:00 - 16:50	Rainer Raupach	<b>Bridging Amateur and Professional Astronomy: Scientific Contributions from Advanced Astrophotography</b>
16:50 - 17:20	<b>Poster Flash Talks</b>	
17:20 - 18:00	<b>Poster Session</b>	
18:00 - 20:00	<i>DINNER</i>	

# Program

**Wednesday, 17 June 2026**

07:30 - 09:00 *BREAKFAST*

## **Morning Session: Interstellar Medium and Galactic Diffuse Emission**

09:00 - 09:45 Mike Yeung **Recent advances on understanding the soft X-ray background using SRG/eROSITA**

09:45 - 10:30 Martin Mayer **X-raying the multi-phase ISM in the LMC**

10:30 - 11:00 *COFFEE BREAK*

11:00 - 11:20 Jürgen Kerp **Fueling the Milky Way's star formation**

11:20 - 11:40 Mohammadreza Ayromlou **The Baryon Budget of the Universe**

11:40 - 12:00 Sanskriti Das **The hot circumgalactic medium, the hidden treasure trove of galaxies**

12:00 - 12:20 Anjali Gupta **Super-solar Nitrogen and Large-Scale Feedback in the Milky Way CGM**

12:20 - 14:00 *LUNCH*

# Program

Wednesday, 17 June 2026

## Afternoon Session: Population Studies of Galactic Sources

14:00 - 14:45	Elias Kyritsis	Towards a truly unbiased X-ray survey of star-forming galaxies in the nearby Universe with eROSITA
14:45 - 15:30	Antara Basu-Zych	Exploring Galactic Frontiers Far Beyond the X-ray Observable Universe: A Multiwavelength View of Energetic Processes in High-Redshift Analogs
15:30 - 16:00	<i>COFFEE BREAK</i>	
16:00 - 16:20	Chandreyee Maitra	The population of X-ray emitting compact stars in the Magellanic system detected during the eROSITA all-sky survey
16:20 - 16:40	Jan Kurpas	Growing the population of thermally emitting isolated neutron stars with SRG/eROSITA
16:40 - 17:00	Sandro Mereghetti	Magnetars beyond the Local Group
17:00 - 17:30	<b>Poster Flash Talks</b>	
17:30 - 18:30	<b>Poster Session</b>	
18:30 - 20:30	<i>HERAEUS-DINNER</i>	

# Program

Thursday, 18 June 2026

07:30 - 09:00    *BREAKFAST*

09:00 - 16:00    **Excursion to the  
100m Radio  
Telescope in  
Effelsberg**                      **Preregistered participants**

**End of the seminar and departure**