

First eROSITA International Conference: Mapping the Structure of the Energetic Universe

Garmisch-Partenkirchen, Germany, October 17-20, 2011

Program

Invited talks are 30 (25+5) minutes long
Solicited talks are 25 (20+5) minutes long
Contributed talks are 15 (12+3) minutes long

Monday, 17th October 2011

10:00 - 14:00 Registration

14:00 Welcome address (10)

SESSION 1: eROSITA on SRG - chair: W. Voges

14:10 I. Lomakin: *SRG mission overview* (25)
14:35 P. Predehl: *eROSITA on SRG* (25)
15:00 P. Friedrich: *eROSITA X-ray Optics* (25)
15:25 N. Meidinger: *eROSITA CCD Detectors* (25)
15:50 M. Pavlinsky: *The ART-XC Telescope* (25)

16:15 - 16:45: Coffee break and posters viewing

SESSION 2: Future X-ray missions - chair: R. Sunyaev (TBC)

16:45 F. Harrison: *The Nuclear Spectroscopic Telescope Array (NuSTAR)* (25)
17:10 Y. Takei: *The ASTRO-H mission* (25)
17:35 L. Stella: *The Large Observatory for X-ray Timing (LOFT)* (25)
18:00 K. Nandra: *ATHENA* (25)
18:25 G. Pareschi: *High angular resolution optics for the next generation of Wide Field X-ray Telescopes (WFXT), beyond eROSITA* (15)

18:40 END of SESSIONS

19:00 Welcome reception at the conference center

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Program, contd.

Tuesday, 18th October 2011

SESSION 3: Observing galaxy clusters - chair: G. Lamer

- 9:00 H. Boehringer: *Prospects for eROSITA Galaxy Cluster Research* (30)
9:30 N. Aghanim: *PLANCK early results on clusters* (25)
9:55 J. Mohr: *The South Pole Telescope Galaxy Cluster Survey* (25)
10:20 S. Ettori: *Where the wild baryons are: the outskirts of galaxy clusters* (15)
10:35 A. Finoguenov: *Galaxy groups in deep X-ray surveys: lessons for eROSITA* (15)

10:50 - 11:25 Coffee break and posters viewing

SESSION 4: Clusters as cosmological probes - chair: C. Porciani

- 11:25 G. Evrard: *Massive Halos: the Crossroads of Astrophysics and Cosmology* (30)
11:55 S. Majumdar: *Probing Inflationary Physics and Dark Energy with eROSITA clusters* (15)
12:10 A. Pillepich: *The X-ray cluster survey with eROSITA: predictions for cosmology, cluster physics, and primordial non-Gaussianity* (15)
12:25 R. Fassbender: *Distant X-ray clusters and their applications with XMM-Newton and eROSITA* (15)

12:40 - 14:20 Lunch break

SESSION 5: Clusters and the theory of structure formation - chair: G. Chon

- 14:20 S. White: *Regularity or diversity? The expected properties of the cluster population* (30)
14:50 T. Jeltema: *Searching for Dark Matter with Gamma-Ray and X-ray Observations* (30)
15:20 M. Hoeft: *eROSITA + LOFAR: What it takes to discover radio relics* (15)
15:35 K. Dolag: *Magnetic Pathfinder, preliminary results* (15)

15:50 -16:20 Coffee break and posters viewing

SESSION 6: Diffuse emission from ICM, ISM, SNR - chair: M. Freyberg

- 16:20 E. Churazov: *X-ray surface brightness fluctuations in galaxy clusters* (30)
16:50 I. Zhuravleva: *Observational signatures of turbulence in ICM: current status* (15)
17:05 S. Snowden: *Diffuse X-ray Emission in the Milky Way* (30)
17:35 M. Sasaki: *Shock-heated Plasma in the Interstellar Medium* (15)
17:50 K. Dennerl: *The potential of eROSITA for Charge Exchange Astrophysics* (15)

18:05 END of SESSIONS

19:00 for 19:30 Conference dinner, Hotel Schatten, Garmisch-Partenkirchen

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Program, contd.

Wednesday, 19th October 2011

SESSION 7: Results from recent wide field (X-ray) surveys - chair: A. Merloni

- 9:00 N. Kaiser: *The Pan-STARRS Wide-Field Imaging Survey* (25)
9:25 M. Pierre: *Wide field X-ray surveys with XMM* (30)
9:55 M. Watson: *The XMM-Newton Serendipitous Survey after 10 years* (15)
10:10 M. Brusa: *What we have learned about the identification of X-ray sources: the lesson from the COSMOS X-ray surveys* (15)
10:25 A. Ptak: *Bayesian Analysis of Starburst Galaxy and Obscured AGN Evolution in X-ray Surveys* (15)

10:40 - 11:10 Coffee break and posters viewing

SESSION 8: Active Galactic Nuclei - chair: S. Sazonov

- 11:10 Y. Ueda: *Investigation of AGN evolution with eROSITA* (30)
11:40 S. Warren: *Searches for AGN at $z > 5$ from X ray to radio* (30)
12:10 A. Comastri: *X-ray spectroscopy of obscured AGN* (15)
12:25 S. Croom: *The evolution of hot and cold mode accretion* (15)

12:40 - 14:00 Lunch break

SESSION 8, contd. - chair: M. Brusa

- 14:00 A. Fabian: *AGN feedback* (30)
14:30 G. Kauffmann: *Lessons learned from large surveys of optically selected AGN in the local Universe* (30)
15:00 A. Georgakakis: *Constraining the environment of AGN with eROSITA* (15)
15:15 A. Kolodzig: *AGN in the eROSITA - All-Sky survey* (15)
15:30 R. Saxton: *Exploiting X-ray flares from galactic nuclei: lessons learned from XMM-Newton* (15)

15:45 - 16:15 Coffee break and poster viewing

SESSION 9: X-Ray Binaries, compact objects, transients - chair: A. Santangelo

- 16:15 C. Motch: *Multi-wavelength studies of microquasars and ULXs* (30)
16:45 J. Wilms: *The transient X-ray sky (TBC)* (30)
17:15 R. Wijnands: *Finding sub-luminous accreting neutron stars and black holes using eROSITA* (15)
17:30 R. Rutledge: *Isolated neutron stars with eROSITA* (15)
17:45 G. Sala: *How strange is the Rapid Burster? Constraining the mass and radius of the accreting neutron star in MXB 1730-335* (15)
18:00 **Special talk:** J. Trümper: *ROSAT* (30)
18:30 END of SESSIONS

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Program, contd.

Thursday, 20th October 2011

SESSION 10: Galactic X-ray sources - chair: J. Robrade

- 9:00 B. Stelzer: *Prospects for eROSITA studies of nearby active stars and young stellar objects* (30)
9:30 L. Oskinova: *X-rays from massive stars and star clusters* (15)
9:45 M. Revnivtsev: *Populations of galactic X-ray sources* (30)
10:15 A. Schwobe: *Cataclysmic variables in the eROSITA sky* (30)
10:45 R. Voss: *Faint LMXBs in the Galaxy* (15)

11:00 -11:30 Coffee break and poster viewing

SESSION 11: Galaxies in X-rays - chair: I. Kreykenbohm

- 11:30 M. Gilfanov: *Normal galaxies in the eROSITA all-sky survey* (15)
11:45 F. Haberl: *X-ray source population studies of Local Group Galaxies - Prospects for eROSITA* (15)
12:00 C. Jones: *Normal and Extreme Galaxies: What we might learn about galaxies from eROSITA* (15)
12:15 D. Bomans: *X-ray emission of galactic winds in low and high redshift galaxies* (15)

12:30 - 14:00 Lunch break

SESSION 12: Status and prospects of multi-wavelength wide area surveys - chair: M. Salvato

- 14:00 H. Rottgering: *LOFAR surveys of the radio sky: probing shocks and magnetic fields in galaxy clusters* (25)
14:25 T. Reiprich: *ASKAP/EMU and eROSITA Complementarity for Galaxy Cluster Studies* (15)
14:40 S. Farrell: *CAASTRO: The Centre for All-sky Astrophysics* (15)
14:55 C. Lonsdale: *IR Surveys (TBC)* (25)
15:20 T. Miyaji: *The Synoptic All-Sky Survey (SASIR): Project and its implications to eROSITA Science* (15)

15:35 - 16:05 Coffee break

SESSION 12, contd.

- 16:05 M. Rejkuba: *The ESO Public Surveys* (25)
16:30 R. Gibson: *The LSST Contribution to a Temporal, Multi-Wavelength View of the Sky* (25)
16:55 A. Schwobe: *4MOST - A spectroscopic follow-up machine for eROSITA* (15)
17:10 S. Miyazaki: *Subaru Hyper Suprime-Cam: the instrument and the survey* (15)
17:25 A. Merloni, S. Sazonov: *Concluding remarks* (35)

18:00 END of CONFERENCE