

# Scientific Event Report

**E**

**Research in Astrophysics from Space**

**E1.15**

**X-ray Polarimetry: Experiments and Science Prospects**

Main Scientific Organizer

*Paul, Biswajit*

Deputy Organizer

*Soffitta, Paolo*

X-ray polarimeters: Large missions

Chair: Paul, Biswajit

Date: Wed, Aug 03, 2016. Room: 3B61

**E1.15-0001-16 14:00 - 14:30 (solicited)**

**The Imaging X-ray Polarimetry Explorer (IXPE)**

*Ramsey, Brian*

**E1.15-0002-16 14:30 - 15:00 (solicited)**

**XIPE The X-ray Imaging Polarimetry Explorer**

*Soffitta, Paolo*

**E1.15-0003-16 15:00 - 15:30 (solicited)**

**The Polarization from Relativistic Astrophysical X-ray Sources (PRAXyS) Mission**

*Jahoda, Keith; Black, J. Kevin; Hill, Joanne; Kaaret, Philip; Kallman, Timothy; Kouveliotou, Chryssa;*

*Tamagawa, Toru* Team: PRAXyS team

Isolated Neutron Stars and SNR

Chair: Kaaret, Philip

Date: Wed, Aug 03, 2016. Room: 3B61

**E1.15-0004-16 17:00 - 17:30 (solicited)**

**X-ray Polarisation in highly-magnetized neutron stars**

*Turolla, Roberto*

**E1.15-0005-16 (WITHDRAWN) 17:30 - 18:00 (solicited)**

**X-ray Polarisation in PWNe and SNRs**

*De Ona Wilhelmi, Emma; Vink, Jacco; Zanin, Roberta*

**E1.15-0006-16 18:00 - 18:15**

**Polarization of neutron star surface emission: a systematic analysis**

*Taverna, Roberto*

**E1.15-0007-16 18:15 - 18:30**

**Polarized thermal emission from X-ray dim isolated neutron stars**

*Gonzalez, Denis; Zane, Silvia; Taverna, Roberto; Turolla, Roberto; Wu, Kinwah*

X-ray polarimeters: Small missions

Chair: Matt, Giorgio

Date: Thu, Aug 04, 2016. Room: 3B61

**E1.15-0008-16 09:30 - 09:50 (solicited)**

**POLIX: A Thomson X-ray polarimeter for a small satellite mission**

*Paul, Biswajit; Puthiya Veetil, Rishin; M R, Gopala Krishna*

**E1.15-0009-16 09:50 - 10:10 (solicited)**

**Scientific capabilities of POLAR and its coordinated observation program**

*Zhang, Shuang-Nan*

**E1.15-0010-16 10:10 - 10:30 (solicited)**

**Broad Band Polarimetry with the Soft Gamma-ray Detector on board Hitomi (ASTRO-H)**

*Mizuno, Tsunefumi* Team: SGD team

**E1.15-0011-16 10:30 - 10:45**

**Soft X-Ray Polarimetry with a CubeSat**

*Kaaret, Philip*

**E1.15-0012-16 10:45 - 11:00**

**Hard X-ray Imaging Polarimeter for PolariS**

*Hayashida, Kiyoshi* Team: PolariS Hard X-ray Imaging Polarimeter Team

X-ray Binaries

Chair: Costa, Enrico

Date: Thu, Aug 04, 2016. Room: 3B61

**E1.15-0013-16 11:30 - 12:00 (solicited)**

**Polarized X-rays from accreting neutron stars**

*Bhattacharya, Dipankar*

**E1.15-0014-16 (WITHDRAWN) 12:00 - 12:30 (solicited)**

**X-ray Polarisation in Accreting Black Holes and AGNs**

*Dovciak, Michal*

**E1.15-0015-16 (WITHDRAWN) 12:30 - 12:45**

**A multiwavelength approach to understanding X-ray polarisation of synchrotron jets in X-ray binaries**

*Russell, David*; Shahbaz, Tariq

**E1.15-0016-16 12:45 - 13:00**

**Polarisation modulation in X-ray binaries**

*Ingram, Adam*; Maccarone, Thomas

Polarisation measurements and instrument developments

Chair: Feng, Hua

Date: Thu, Aug 04, 2016. Room: 3B61

**E1.15-0017-16 14:00 - 14:15**

**PoGOLite measurement of Crab polarisation and future plans**

*Pearce, Mark*

**E1.15-0018-16 14:15 - 14:30**

**Overview of recent INTEGRAL polarimetric observations**

*Laurent, Philippe*; Gouffes, Christian; Rodriguez, Jerome; Götz, Diego; Savchenko, Volodymyr; Limousin, Olivier; Roques, Jean-Pierre; Jourdain, Elisabeth

**E1.15-0019-16 14:30 - 14:45**

**Exploring hard X-ray polarimetry with Astrosat-CZTI**

*Vadawale, Santosh* Team: Astrosat CZTI Team

**E1.15-0020-16 14:45 - 15:00**

**Soft X-ray Polarimetry Development**

*Marshall, Herman*; Schulz, Norbert S.; Heine, Sarah

**E1.15-0021-16 15:00 - 15:15**

**On the Gas Optimization and Systematic Error for the Gas Pixel Detector**

*Feng, Hua*; Zhang, Heng; Li, Hong; Muleri, Fabio; Bellazzini, Ronaldo; Soffitta, Paolo; Costa, Enrico

**E1.15-0022-16 15:15 - 15:30**

**X-ray Polarimetry. A tool for Fundamental Physics**

*Costa, Enrico*

AGNs and Blazars

Chair: Soffitta, Paolo

Date: Thu, Aug 04, 2016. Room: 3B61

**E1.15-0023-16 17:00 - 17:30 (solicited)**

**High-Energy Polarization from Jets in AGN and Microquasars (Solicited)**

*Boettcher, Markus*

**E1.15-0024-16 17:30 - 17:45**

**The geometry of radio-quiet AGN studied with X-ray polarimetry**

*Matt, Giorgio*

**E1.15-0025-16 (WITHDRAWN) 17:45 - 18:00**

**The future X-ray polarimetric and multi-instrument view of black hole winds**

*Goosmann, Rene*

## **Poster Program**

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Author in Attendance: Thursday, 15:30 - 17:00, Poster area: B1 Poster Area

STW = Sunday, Tuesday, Wednesday / TFS = Thursday, Friday, Saturday

**TFS-172 E1.15-0027-16**

**Investigation of Micropatent Gaseous Detector for X-ray Polarimetry**

*Liu, Hongbang; Liang, En-Wei; Liu, Qian; Zheng, Yangheng*

**TFS-174 E1.15-0029-16**

**Discovery of the optical polarization flare following the X-ray giant outburst of V0332+53.**

*Slowikowska, Agnieszka; Krzeszowski, Krzysztof; Reig, Pablo; Zejmo, Michal*

**TFS-175 E1.15-0030-16**

**Accretion X-ray ms pulsar as a probe of NS EOS**

*Zhang, Shu; Ji, Long*

**TFS-176 E1.15-0031-16**

**Development of a dedicated readout ASIC for TPC based X-ray polarimeter**

*Zhang, Hongyan; Deng, Zhi; Li, Hong; Feng, Hua; Liu, Yinong*

**TFS-177 E1.15-0032-16**

**Realistic simulation of the Space-borne Compton Polarimeter POLAR**

*Xiao, Hualin* Team: POLAR collaboration

**TFS-178 E1.15-0033-16**

**A novel track reconstruction algorithm for photoelectric X-ray polarimetry**

*Li, Tenglin; Zeng, Ming; Feng, Hua; Li, Hong*

**TFS-179 E1.15-0034-16**

**Study of X-Ray Polarization Due to Comptonization of Photons inside Thick Disks**

*Chatterjee, Arka; Chakrabarti, Sandip Kumar; Ghosh, Himadri*

**TFS-180 E1.15-0035-16**

**Polarisation properties of pulsars at optical wavelengths**

*Mignani, Roberto; Shearer, Andrew; Slowikowska, Agnieszka; Marelli, Martino*

**TFS-181 E1.15-0036-16**

**Ximpol: a new X-ray polarimetry observation-simulation and analysis framework**

*Baldini, Luca; Omodei, Nicola; Soffitta, Paolo; Muleri, Fabio; Pesce-Rollins, Melissa; Sgro, Carmelo; Latronico, Luca; Spada, Francesca; Manfreda, Alberto; Di Lalla, Niccolo*

**Poster Program**

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Author in Attendance: Friday, 15:30 - 17:00, Poster area: B1 Poster Area

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**Poster Program**

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Author in Attendance: Saturday, 15:30 - 17:00, Poster area: B1 Poster Area

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