

Exploring the Hot and Energetic Universe: The first scientific conference dedicated to the Athena X-ray observatory

List of poster presentations:

Topic 1) Formation, evolution and physical properties of clusters of galaxies

| Poster | Title | Author |
|--------|--|----------------|
| 1.01 | The MACSIS project: Scaling relations of massive galaxy clusters | David Barnes |
| 1.02 | Magnetorotational instability in galaxy clusters: looking forward to ATHENA | Carlo Nipoti |
| 1.03 | Detailed observations of sloshing cold fronts in clusters of galaxies - implications for the physics of the intra-cluster medium | Norbert Werner |
| 1.04 | X-ray cluster surveys and the optical spectroscopic follow-up challenge | Yu-Ying Zhang |

Topic 2) Cosmic feedback

| Poster | Title | Author |
|--------|--|-------------------------|
| 2.01 | The search for Compton-thick AGN in the ATHENA era | Ioannis Georgantopoulos |
| 2.02 | Jet-Powered Feedback in the Athena Era | Sebastian Heinz |
| 2.03 | Connection between accretion state and FeK winds in neutron stars | Gabriele Ponti |
| 2.04 | Unraveling ICM Physics and AGN Feedback with Very Deep Chandra Observations of the Galaxy Group NGC 5813 | Scott Randall |

Topic 3) The missing baryons and the WHIM

| Poster | Title | Author |
|--------|--|---------------|
| 3.01 | Dwarf spheroidal galaxies in the Local Group | Manami Sasaki |

Topic 4) Supermassive black hole evolution

| Poster | Title | Author |
|--------|---|------------------|
| 4.01 | Properties of Compton thick AGN and their host galaxies, and prospects for the Athena mission | Giorgio Lanzuisi |
| 4.02 | The infrared as a means to identify extremely obscured active galactic nuclei | Hugo Messias |
| 4.03 | The Hard X-ray Luminosity Function of High-Redshift AGN | Fabio Vito |
| 4.04 | X-raying the most luminous QSOs in the universe | Luca Zappacosta |
| 4.05 | The complex evolution of AGN outflows | Kastytis Zubovas |

Topic 5) Accretion physics and strong gravity

| Poster | Title | Author |
|--------|--|-------------------------|
| 5.01 | X-ray Reverberation with Athena | Barbara De Marco |
| 5.02 | Iron line time lags spectrum modelling with ATHENA | Anastasios Epitropakis |
| 5.03 | X-ray variability in AGN: LINER vs. Seyfert 2 | Lorena Hernandez-Garcia |
| 5.04 | Can we use energy spectra to differentiate QPO model? | Peggy Varniere |
| 5.05 | A Detailed Probe of Accretion Physics through X-ray Reflection and Reverberation | Dan Wilkins |

Topic 6) High energy transient phenomena

| Poster | Title | Author |
|--------|--|-------------------|
| 6.01 | Coronae and Winds from Irradiated Disks in X-ray binaries | Nick Higginbottom |
| 6.02 | Dynamic energy/power spectra derived from X-ray spectra and light curves | Jan-Uwe Ness |
| 6.03 | The EXTraS project: Exploring the X-ray Transient and variable Sky | Andrea Tiengo |
| 6.04 | Local cloud simulations: a new tool for modeling the AGN environment | Timothy Waters |

Topic 7) Solar system and exoplanets

| Poster | Title | Author |
|--------|---|--------------------|
| 7.01 | Search for serendipitous TNO occultation events in X-rays with Athena | Hsiang-Kuang Chang |

Topic 8) Star formation and evolution

| Poster | Title | Author |
|--------|---|---------------------|
| 8.01 | Accretion in young stars: measure of the stream velocity of TW Hya from the X-ray Doppler shift | Costanza Argiroffi |
| 8.02 | X-ray absorption studies of young stars | Christian Schneider |

Topic 9) The physics of compact object

| Poster | Title | Author |
|--------|---|-------------------|
| 9.01 | Athena's Constraints on the Dense Matter Equation of State from Quiescent Low Mass X-ray Binaries | Sebastien Guillot |
| 9.02 | X-ray view of pulsar wind nebulae: What we can learn with Athena? | Oleg Kargaltsev |
| 9.03 | Isolated neutron stars as seen by Athena | Bettina Posselt |
| 9.04 | Prospects for studies of extragalactic X-ray binary populations with Athena | Andreas Zezas |

Topic 10) Supernovae, supernova remnants and the ISM

| Poster | Title | Author |
|--------|--|----------------------|
| 10.01 | Centrally peaked Fe-rich supernova remnants in the Large Magellanic Cloud with Athena | Patrick Kavanagh |
| 10.02 | X-ray emitting ejecta in the Tycho's SNR, new results and future perspectives for Athena X-IFU | Marco Miceli |
| 10.03 | Connecting the high- and low-energy Universe: dust processing inside supernova remnants | Elisabetta Micelotta |
| 10.04 | Three-dimensional hydrodynamic modeling of SN 1987A from the supernova explosion till the Athena era | Salvatore Orlando |
| 10.05 | An Archival X-ray Study of the Large Magellanic Cloud Supernova Remnant N132D | Paul Plucinsky |

Topic 11) Multiwavelength synergies

| Poster | Title | Author |
|--------|---|---------------------|
| 11.01 | Star Formation & the Star Formation History of the Universe: Exploring & Adding the X-Ray Point of View | Denis Burgarella |
| 11.02 | On the nature of Fermi gamma-ray sources | Pablo Saz Parkinson |

Topic 12) Other

| Poster | Title | Author |
|--------|--|-----------------------|
| 12.01 | European user support activities for ASTRO-H | Marc Audard |
| 12.02 | Status of X-ray microcalorimeter detector development for the X-IFU | Simon Bandler |
| 12.03 | Catching a glimpse of the X-ray emission from galaxies in the early Universe by studying nearby low-metallicity galaxies | Antara Basu-Zych |
| 12.04 | Screening and validation of EXTraS data products | Stefania Carpano |
| 12.05 | Athena X-IFU event reconstruction software SIRENA | Maria Teresa Ceballos |
| 12.06 | Bright Source Capabilities of the Athena WFI and X-IFU Instrument | Thomas Dauser |
| 12.07 | Athena mission operations concept with a special view on ToO | Marcus G. F. Kirsch |
| 12.08 | The reduction techniques of the particle background for the ATHENA X-IFU instrument at L2 orbit: Geant4 and the CryoAC | Claudio Macculi |
| 12.09 | A truly diffuse component of the Galactic Ridge X-ray emission contributed by the radiation of Galactic X-ray binaries | Margherita Molaro |
| 12.10 | The X-IFU end-to-end simulations performed for the TES array optimization exercise | Philippe Peille |
| 12.11 | AHEAD: Integrated Activities in the High Energy Astrophysics Domain | Luigi Piro |
| 12.12 | A Catalogue of X-ray BL Lacs: Statistics applied to the study of X-ray spectra | Alicia Rouco |
| 12.13 | End-to-End Simulations for Athena | Joern Wilms |