

**Exploring the Hot and Energetic Universe:
The first scientific conference dedicated to the Athena X-ray observatory
Programme (v4.4)**

Tuesday September 08

08:30 - 10:00	Registration	
10:00 - 13:00	General Information on Athena I	Chair: TBC
10:00 - 10:25	Gimenez: Athena and the ESA Program	
10:25 - 10:50	Lumb: The Assessment Phase Activities for ATHENA	
10:50 - 11:15	Nandra: Scientific Activities in the Study Phase	
11:15 - 11:45	Coffee Break & Poster Viewing	
11:45 - 12:10	Bavdaz: The Athena Optics	
12:10 - 12:35	Barret: The Athena X-ray Integral Field Unit	
12:35 - 13:00	Meidinger: Wide Field Imager Instrument for ATHENA	
13:00 - 14:00	Lunch	
14:00 - 15:40	General Information on Athena II	Chair: TBC
14:00 - 14:20	Smith: US Contributions to Athena	
14:20 - 14:40	Matsumoto: The Athena project and the future plan of the X-ray astronomy in Japan	
14:40 - 15:00	Piro: The Athena Background	
15:00 - 15:20	den Herder: Athena Mission Performance	
15:20 - 15:40	Barcons: Athena as an Observatory in the late 2020s	
15:40 - 16:10	Coffee Break & Poster Viewing	
16:10 - 18:05	Athena Science: The Hot Universe	Chair: TBC
16:10 - 16:35	Ohashi: The Hot Universe: from Cosmological Filaments to Clusters	
16:35 - 16:55	Kaastra: The missing baryons and the warm-hot intergalactic medium	
16:55 - 17:15	Pointecouteau: Evolution of Groups and Clusters of Galaxies	
17:15 - 17:35	Eckert (Pratt*): The Astrophysics of Galaxy Groups and Clusters with Athena	
17:35 - 17:50	Bregman: Detecting Missing Baryons around the Milky Way and External Galaxies	
17:50 - 18:05	Maughan (Giles*): What are we learning about distant Clusters from XXL	
*Presenter, different from first author		
18:30 - 20:00	Welcome Reception	

Wednesday September 09

09:30 - 13:05	Athena Science: The Hot and Energetic Universe; Synergies	Chair: TBC
09:30 - 09:50	Sanders: Studying AGN Feedback in Galaxy Clusters and Groups	
09:50 - 10:05	Rasia: Evolution of Entropy Profile in Simulated Clusters	
10:05 - 10:20	Pinto: ATHENA Solution for the Cooling Flow Problem in Clusters of Galaxies	
10:20 - 10:35	Mingo: Radio AGN Feedback on Galaxy Scales: What can Athena show us?	
10:35 - 10:50	Soltan: Prospects for the Direct WHIM Detection by ATHENA	
10:50 - 11:20	Coffee Break & Poster Viewing	
11:20 - 11:45	Cappi: Accretion and Ejection Power across the Universe	
11:45 - 12:10	Brandt: The Landscape of Large Sky Surveys in the Athena Era (Synergy Talk)	
12:10 - 12:35	Aird: The Formation and Growth of the Earliest Supermassive Black Holes	
12:35 - 12:50	Watson: The Athena Serendipitous Survey	
12:50 - 13:05	Risaliti: A new Cosmological Probe based on X-ray Surveys of Quasars	
13:05 - 14:00	Lunch	
14:00 - 15:40	Athena Science: The Energetic Universe II	Chair: TBC
14:00 - 14:20	O'Brien: Luminous Extragalactic Transients	
14:20 - 14:40	Carrera: Understanding the build-up of SMBH and Galaxies	
14:40 - 15:00	Ponti: Astrophysics of Feedback in local AGN and star-forming Galaxies	
15:00 - 15:20	Miniutti: The close Environments of Supermassive Black Holes	
15:20 - 15:40	Uttley: Mapping the many faces of accretion with Athena	
15:40 - 16:10	Coffee Break & Poster Viewing	
16:10 - 18:00	Athena Science: The Energetic Universe II (cntd.); Synergies	Chair: TBC
16:10 - 16:35	Combes: ALMA & mm: Early Galaxies & Star Formation (Synergy Talk)	
16:35 - 17:00	Fender: SKA and the Deep Radio Universe (Synergy Talk)	
17:00 - 17:15	Jonker: Fast X-ray Flashes; Signs of a Tidal Disruption of a WD by an IMBH?	
17:15 - 17:30	Dai: Microlensing Constraints on Quasar Emission Regions: Athena's Perspective	
17:30 - 17:45	Ptak: X-IFU Simulations of Starburst Galaxies	
17:45 - 18:00	Terrier: The Violent Universe in the central 300 pc of the Galaxy: an XMM-Newton Survey of the Region	
21:00 - 00:00	<i>Conference Dinner: Celebration Speech by G. Palumbo: From Xeus to Athena</i>	

Thursday September 10

09:30 - 13:10	Athena Science: Observatory Science	Chair: TBC
09:30 - 09:50	Ezoe: Solar System and Exoplanets	
09:50 - 10:05	Wolk: Observable Effects of Exoplanets on Stars	
10:05 - 10:25	Rauw: Star Formation and Evolution as seen with Athena	
10:25 - 10:45	Decourchelle: The Astrophysics of Supernova Remnants and the Interstellar Medium	
10:45 - 11:00	Burgarella: Star Formation & the Star Formation History of the Universe: Exploring & Adding the X-Ray Point of View	
11:00 - 11:30	Coffee Break & Poster Viewing	
11:30 - 11:55	Uchiyama: Synergies between X-ray and Gamma-ray Observations of Cosmic Particle Accelerators (Synergy Talk)	
11:55 - 12:20	Colpi: The EM counterparts to GWs from Ground and space-based GW facilities (Synergy Talk)	
12:20 - 12:40	Bozzo: End Points of Stellar Evolution	
12:40 - 12:55	Costantini: The Interstellar Medium in the Era of Athena	
12:55 - 13:10	Concluding Remarks	
	<i>End of the Conference</i>	
13:10 - 14:10	Lunch	
14:15 - 16:30	Topical Panel Chair Meeting	