2022 EAS S5: Towards the next generation of X-ray surveys with *Athena*Programme

S5a: Thu. 30th Jun. 09:00 - 10:30. Room 8 Chair: Silvia Martínez-Núñez

	09:00 - 09:30: The <i>Athena</i> X-ray observatory: prospective science and mission status. Francisco J. Carrera (IFCA) .			
	09:30 - 10:00: Expectations for AGN population and evolution studies with <i>Athena</i> in perspective to previous and ongoing surveys. Giorgio Lanzuisi (INAF-OAS) .			
	10:00 - 10:15: A new multi-wavelength approach for finding Compton thick AGNs: implications for the Athena X-ray observatory. Brivael Laloux (National Observatory of Athens & Durham University) .			
	10:15 - 10:30: A Hubble diagram of quasars at high redshift with <i>Athena</i> serendipitous observations. Guido Risaliti (University of Florence) .			
S5b: Thu. 30th Jun. 11:15 - 12:45. Room 8 Chair: Natalie Webb				
	11:15 - 11:45: AGN population and evolution studies with eROSITA. Johannes Buchner (MPE) .			
	11:45 - 12:00: An X-ray and Radio View of AGN Accretion and Feedback with eROSITA and LOFAR. Zsofi Igo (MPE) .			
	12:00 - 12:15: <i>Athena</i> Takes Hard X-ray Spectroscopy from the Local Universe out to the Cosmic Noon. Mislav Balokovic (Yale University) .			
	12:15 - 12:30: The AGN population to be discovered by <i>Athena</i> . Melanie Habouzit (Zentrum Fur Astronomie & MPfA).			
	12:30 - 12:45: The detection of z>5.5 quasars with eROSITA. Julien Wolf (MPE).			

<u>S5c: Thu. 30th Jun. 17:30 - 19:00. Room 8</u> <u>Chair: Mara Salvato</u>

17:30 - 18:00: eROSITA to <i>Athena</i> : Cluster Science and Cosmology with X-ray Surveys. Esra Bulbul (MPE) .
18:00 - 18:15: The low-end of the black hole mass function at cosmic dawn. Alessandro Trinca (Sapienza University of Rome).
18:15 - 18:30: Unravelling the census of supermassive black hole spin with <i>Athena</i> . Peter Boorman (Astronomical Institute of the Czech Academy of Sciences).
18:30 - 19:00: X-ray surveys of binary populations in nearby galaxies: insights from Chandra and XMM to future prospects with eROSITA and <i>Athena</i> . Antara Basu-Zych (UMBC & NASA/GSEC)

S5d: Fri. 1st Jul. 09:45 - 10:30. Room 8 Chair: Stefano Ettori

09:45 - 10:00: Cosmic metals and missing baryons in EAGLE filaments. Toni Tuominer (Tartu Observatory, University of Tartu).
10:00 - 10:15: Galaxy clusters outskirts: lands of unobserved accretion sources. Matteo Angelinelli (University of Bologna & INAF-OAS).
10:15 - 10:30: Incidence of AGN in massive galaxy clusters: from Chandra to <i>Athena</i> . Iván Muñoz Rodríguez (National Observatory of Athens and Southampton University) .
S5e: Fri. 1st Jul. 11:15 - 12:30. Room 8 Chair: Matteo Guainazzi
11:15 - 11:30: New constraints on Axion-Like Particles from the cluster-hosted quasar H1821+643, and a promising future with <i>Athena</i> . Julia Margalida Sisk Reynes (Institute of Astronomy, University of Cambridge).
11:30 - 11:45: The Cosmological evolution of galaxies as seen with <i>Athena</i> . Andreas Zezas (University of Crete & Institute of Astrophysics Forth) .
11:45 - 12:00: The Outskirts and the Filaments of the A3391/95 System with eROSITA. Angie Veronica (AlfA/University of Bonn) .
12:00 - 12:15: The X-ray Luminosity function of galaxies from the CDFS 7Ms Survey and high-z predictions for <i>Athena</i> with SPRITZ. Carlotta Gruppioni (INAF-OAS) .
12:15 - 12:30: What do observations of the cosmic 21-cm signal imply for <i>Athena</i> . Andrei Mesinger (Scuola Normale Superiore).

<u>S5f: Fri. 1st Jul. 17:30 - 18:30. Room 8</u> <u>Chair: Arne Rau</u>

	· 17:45: Counterpart rates to massive black hole binary mergers in the thena era. Alberto Mangiagli (APC).
	- 18:00: Surveying the X-ray sky with XMM- <i>Newton</i> to find transients. Natalie (IRAP).
	18:15: Measuring the mass and the spin of intermediate-massive black hole ates using tidal disruption events. Zheng Cao (SRON).
18:15 -	- 18:30: ePosters presentations:
	Hydrostatic bias in the FLAMINGO simulations. Joey Braspenning (Leiden Observatory).
	The X-ray emission of star-forming galaxies detected in the eROSITA survey and their connection with stellar populations. Elias Kyritsis (Institute of Astrophysics, Forth & University of Crete).
	XMM-Newton follow-up of a sample of galaxy groups detected in the ROSAT All-Sky Survey. Claudia Spinelli (AlfA).
	Influence of the binary parameters on the X-ray signature of circumbinary disks around binary black holes. Raphaël Mignon-Risse AstroParticule & Cosmologie (Paris).