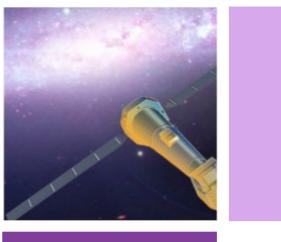
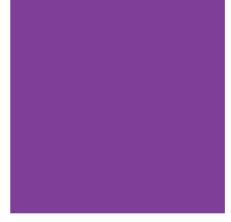
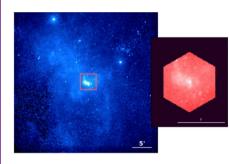


The Athena Community Office (ACO)







Silvia Martínez-Núñez on behalf of the Athena Community Office team

Instituto de Física de Cantabria (IFCA)



Advanced Telescope for High-Energy Astrophysics

- Second Large (L2) mission of ESA Cosmic Vision 2015-2025
- Science theme: The Hot and Energetic Universe
 - How does ordinary matter assemble in the large-scale structures?
 - How do black holes grow and shape galaxies?

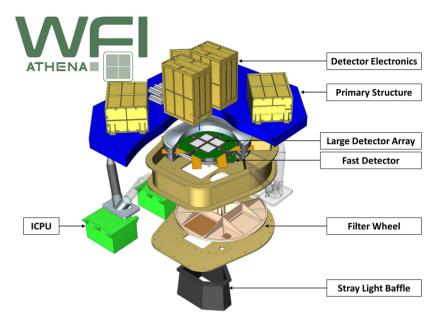
■ In addition:

- Fast ToO capability to study transient sources
- Observatory science across all corners of Astrophysics

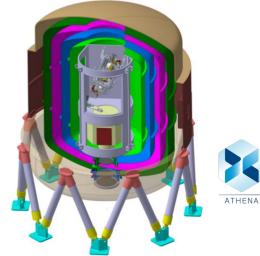


Athena mission concept

- Single telescope, using Si pore optics. 12m focal length
 - WFI sensitive imaging & timing
 - X-IFU spatially resolved high-resolution spectroscopy
- Movable mirror assembly to switch between the the two instruments
- Launch 2028/2029, Ariane 64
- L2 halo orbit (TBC)
- Lifetime >= 4 yr



http://www.mpe.mpg.de/ATHENA-WFI/







The Athena Community

- With the agreement of ESA, the ASST established a Working Group structure populated by members of the community
- The community is formed by more than 800 researchers. Their scientific and technical expertises are key for the success of the mission

ESA Athena Science Study Team (ASST) M. Guainazzi (Chair), K. Nandra (Lead & WFI), D. Barret (X-IFU), A. Decourchelle, J. W. den Herder, A.C. Fabian, H. Matsumoto (JAXA), L. Piro, R. Smith (NASA), R. Willingale SWG3.1 Solar System & exoplanets G. Branduardi-Raymont, M. Güdel SWG3 - Observatory A. Decourchelle, SWG3.2 Star formation and evolution SWG1.1 Evolution of galaxy groups and clusters G. Rauw. S. Sciortino S. Allen, N. Ota, E. Pointecouteau SWG3.3 End points of stellar evolution SWG1.2 Astrophysics of galaxy groups and clusters E. Bozzo, A. Schwope

D. Eckert, S. Ettori, G. Pratt SWG1.3 AGN feedback in galaxy clusters and groups J. H. Croston, B. McNamara, J. Sanders

SWG1.4 Missing baryons and warm-hot intergalactic medium A. Finoguenov, J. Kaastra

> TWG4 - Telescope R. Willingale, G. Pareschi

SWG2. I Formation and growth of earliest SMBH I. Aird, A. Comastri SWG2.2 Understanding the buildup of SMBH and galaxies F. I. Carrera, A. Georgakakis, Y. Ueda SWG2.3 Feedback in local AGN and star forming galaxies G. Ponti, A. Ptak, Y. Terashima SWG2.4 Close environments of SMBH M. Dovciak, G. Matt. G. Miniutti SWG2.5 Physics of accretion C. Done, J. Miller, C. Motch SWG2.6 Luminous extragalactic transients P. Jonker, P. O'Brien

MWG5.1 Science ground segment M. Watson, N. Webb MWG 5.2 Background Ph. Laurent, S. Molendi MWG5.3 Inter-calibration V. Burwitz, F. Pajot, S. Sembay MWG5.4 End-to-end simulations Ph. Peille, J. Wilms MWG5.5 Advanced analysis tools

SWG3.4 Supernova remnants & interstellar medium

A. Bamba, E. Costantini

F. Combes, M. Salvato

SWG3.5 Multiwavelength synergy

F. Fiore, F. Haberl MWG 5.6 Targets of opportunity S. Basa, E. Troja





The Athena Community Office (ACO)

- The ASST established the ACO (December 2015), in order to obtain support in performing its tasks assigned by ESA, notably as "focal point for the interests of the broad scientific community"
- Responsibilities:
 - Organisational aspects and optimisation of community efforts
 - Maintain the Athena Community informed
 - Develop communication and outreach activities around Athena
- Led by IFCA (CSIC-UC) in Spain, with contributions from IRAP, MPE and UniGe

ACO Team







The Athena Community opening event

- On June 22nd 2016, a public event presenting the ACO took place at the premises of the IFCA.
- During this opening event, the new Athena community web portal was released, the first issue of the Athena community Newsletter was published and the first post was sent to the social networks.







Organisational aspects: support to ASST

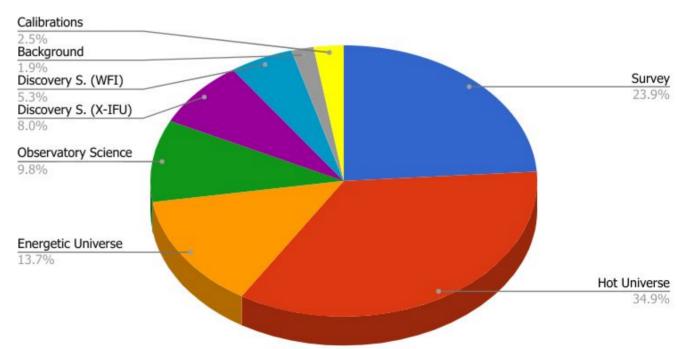
- Scientific Impact of Mass-saving Options (SIMO) exercise
 - February March 2017
 - Purpose: ASST to consider scientific impact of various options to reduce mass (~ 300 kg over 7 tons): reduction of focal length, reduction of mirror size, reductions in instrument capabilities
 - Support on collecting results of scientific impact of various options to reduce mass
- COst-driven Observation Reprogramming Exercise (CORE) exercise
 - May October 2017
 - Purpose: to evaluate the scientific performance of a reduced mission concept able to fit within the ESA cost cap of ~ €1.05bn (2015 EC) and demonstrate the science gained by the more capable mission currently under study
 - Support on collecting results of scientific impact of a reduced mission



Organisational aspects: support to ASST

- Mock Observation Plan (MOP): observing plan of Athena, which it is used for the purpose of mission design
 - From September 2017: maintenance of the document is transferred to ACO
 - Current version (1.2) includes CORE output







Organisational aspects: support to ASST

- To ensure presence of the project in relevant conferences
 - Definition of a strategy: particularly important prior to adoption, to make sure that the governing bodies and their scientific advisors are aware of the relevance and good health of Athena
 - Monthly follow-up of conferences of interest for the project





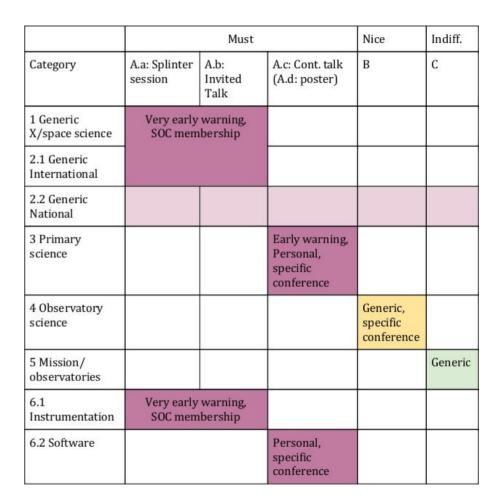




W Liverpool +2018

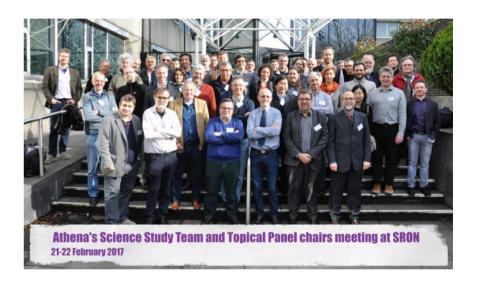






Organisational aspects: internal meetings, summaries and debriefs

- Regular ASST internal meetings
 - Summary of meetings (ASST-SOM)
 - Debrief to SWG and TP-chairs
- ASST-SWG-TP-chairs meetings (~ 2-3 per year)
 - Support on organisation matters
 - Summary of meetings (ASST-SOM)
- Instrument consortia meetings
 - Brief summaries on the web and social media provided by the PIs of the instruments





Organisational aspects: the Athena Document Repository



Search...

Athena Science Working Group document repository

The Athena Mission

Mission Overview ASST-WG Organigramme Help Desk

Meetings Calendar

WGs and TPs meetings Add a Meeting

ASST-WG Documents

Document Repository Rules on document to ASST Upload or Delete Document

ASST

ASST reserved repository and repository of all documents that the ASST wants to share with members at different levels in the Athena hierarchical organization.

Synergies

Categories dedicated to all sinergies exercises between Athena and other present/future facilities.

Activities

and above)

Categories dedicated to all specific activities of the Athena working groups and topical panels coordinated by the ASST.

ASST-WG Meetings

Category dedicated to meetings

involving members in the top levels of

the Athena organigram (from TP chairs

Working Groups

All categories dedicated to the different working groups and topical panels in the Athena hierarchical organization.

Public

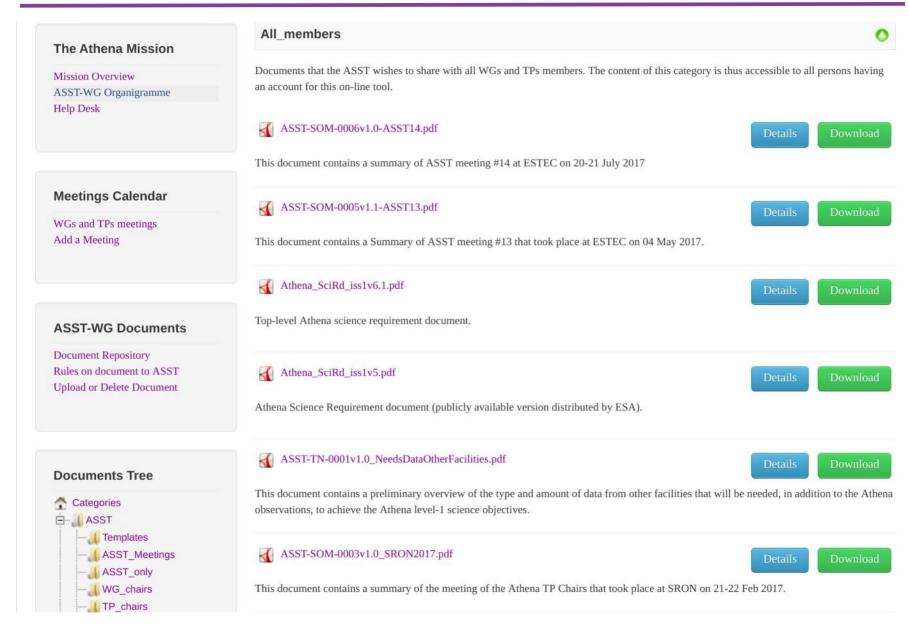
Category dedicated to documents accessible to all members having an account on this on-line tool.

http://www.isdc.unige.ch/athena/





Organisational aspects: the Athena Document Repository





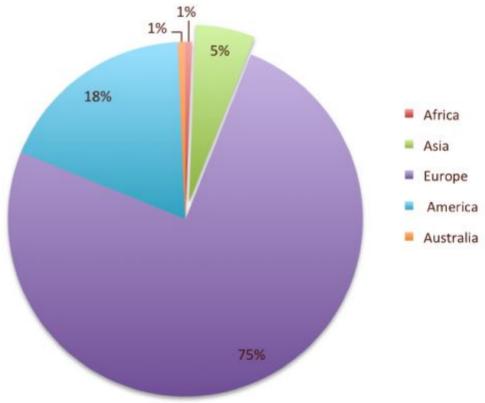


Organisational aspects: Athena Community database

Athena Community database:

- Currently 861 members
- The application for Working Group membership is opened once a year (21 Dec - 31 Jan)
- Major update per year associated to the assessment of new members
- Affiliation changes when required by members

Athena Community 2017





Organisational aspects: support to synergy exercises

■ ESO-Athena Synergy exercise:

- EAST: F. Combes (OPM),
 M. Diaz-Trigo (ESO),
 S. Ettori (INAF/OABO),
 E. Hatziminaoglou (ESO),
 P. Jonker (SRON),
 P. Padovani (ESO, chair),
 M. Salvato (MPE)
 and S. Viti (UCL).
- March 2016: Kick-off
- Sept. 2016: Workshop at ESO headquarters
- May 2017: Publication of the ESO-Athena White Paper at arXiv: 1705.06064

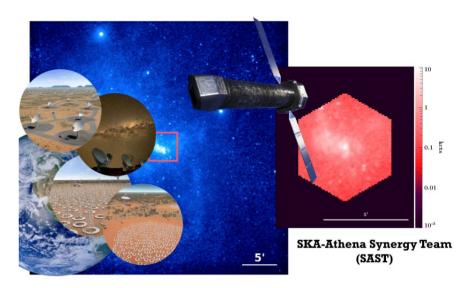




Organisational aspects: support to synergy exercises

■ SKA-Athena Synergy exercise:

- SAST: R. Cassano (INAF, chair),
 C. Ferrari (OCA),
 R. Fender (Oxford)
 and A. Merloni (MPE)
- Sept. 2016: Kick-off
- April 2017: Workshop at SKA headquarters
- Dec. 2017- Jan 208: Publication of the SKA-Athena White Paper at arXiv





Organisational aspects: Athena Community Support Portal (Resources)

Athena Brand

- Presentations templates
- Brand and logo

Publications

- Papers related with Athena
- Overview papers
- Athena mission proposal and white paper
- Supporting papers

Presentations

- Related with Athena
- Standard presentations

http://www.the-athena-x-ray-observatory.eu/



Resources









- Athena Community Support Web Portal (and social media)
 - News of interest for the community
 - Summaries of activities related to the project
 - Announcements of conferences



30*

Ultra Luminous X flay Sources:
When Compact Objects
Become Guittorious Accretors
strations
500 pc

#AthenaNuggets: Ultra-Luminous X-ray Sources: When Compact Objects Become Gluttonous Accretors, by Christian Motch

In the #AthenaNuggets 16, Christian Motch discusses Ultraluminous X-ray sources (ULXs), which are unique laboratories to study the physics...

READ MORE +



News

Athena at European Researchers' Night 2017

Another year Athena was present at the European Researchers' Night, 29th September 2017. This time the activities were focused on...

READ MORE +



#AthenaNuggets: Athena instrument background

In the #AthenaNuggets 15, Simone Lottl and Silvano Molendi explain us the current status of background simulations with the

READ MORE +

*

Activitie:



Summary of the sixth X-IFU consortium meeting by Didier Barret (PI of the instrument)

The sixth X-IFU consortium meeting took place from September 11th to 15th in Madrid at CSIC headquarters. It was hosted...

READ MORE +



Calibration plan of the Athena telescope meeting at SRON

Nearly every six months, a team of world-class experts, is regularly meeting to discuss the calibration plan of the...

READ MORE +



Athena Ground Segment Meetin

A meeting was held on May 23rd-24th at ESAC (Madrid) to discuss various issues related to the Athena ground...

READ MORE +

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Conferences



Registration open for the AHEAD School on High Resolution X-ray Spectroscopy.

The "AHEAD School on High Resolution X-ray Spectroscopy" will be held in Alicante (Spain) from 14 to 17 of...

READ MORE +



48th Saas-Fee Advanced Course: Black hole formation and growth

The 48th "Saas-Fee Advanced Course" of the Swiss Society for Astrophysics and Astronomy (SSAA) will be held from 28 January...

READ MORE +



Workshop "The power of X-ray spectroscopy"

The workshop entitled "The power of X-ray spectroscopy" will be held at Staszic Palace in Warsaw (Poland), 6-8 September 2017....

READ MORE +





- Brief News by email
 - Relevant news to the community
 - Asking for inputs from the community

Athena Community Office <aco@ifca.unican.es>
To: athena-wg-members@lists.mpe.mpg.de

7 June 2017 at 10:02

Athena Community Brief News #4 (7 June 2017)

http://www.the-athena-x-ray-observatory.eu/

Contents:

- Publication of ESO-Athena Synergy White Paper
- New structure at the Athena Document Repository
- Summary of last ASST meeting
- Some relevant conferences to the community





■ Newsletter (every 6 months)

- Athena Project Status
- News from instruments
- Scientific Nugget
- Technical Nugget
- 3 Biographies
- Conferences with presence of Athena
- Other: synergy exercises, background studies, AO new members, ...

*

Newsletter Archive -







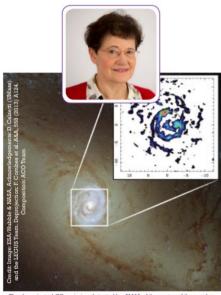
Newsletter #3 (June 2017)



Newsletter #1 (June 2016)

■ Who is who within the Community

Athena Community People



The deprojected CO emission detected by ALMA of the center of the nearby active galaxy NGC 1433.

Françoise Combes

Françoise is an astrophysicist at Paris Observatory, and professor at College de France. She has worked both on numerical simulations of galaxy dynamics and multi-wavelength observations of galaxies, at low and high red-shift. X-ray data have always been very useful to her, first for the physics of AGN, where her interests are in their molecular gas fueling and feedback, and second to map the hot gas in cool core galaxy clusters, where they have detected molecular gas in cooling filaments.

Françoise is co-chairing the topical panel "Multi-wavelength synergy", which is gathering all common interests from radio wavelengths to gamma-rays for the Athena science. She has participated in the EAST (ESO-Athena Synergy Team) writing the White Paper on Athena synergies with ESO based facilities in the Optical/NIR (VLT, E-ELT) and sub/mm (ALMA) regimes.





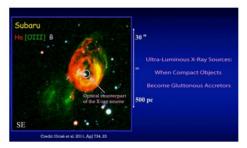


- Purpose: to develop a number of activities in communication and outreach aimed at raising awareness of the science and technology of Athena making them broadly known.
 - Communication: to the scientific community, mostly that working on other Astrophysics & Space Science areas; to funding agencies & related policy makers etc; to the general public.
 - Outreach: addressed to the general public with no (or little) scientific knowledge.

- #AthenaNuggets: small pieces of Athena scientific or technical knowledge (12 SN & 4 TN)
 - Released monthly (every first Saturday of a month) in the web and social media
 - For the community: presentation collecting all nuggets is stored in the Athena Community Web Portal



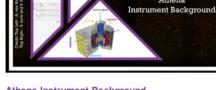
★ Athena Nuggets



Ultra-Luminous X-Ray Sources: When Compact **Objects Become Gluttonous Accretors**

by Christian Motch. Observatoire Astronomique Strasbourg, France

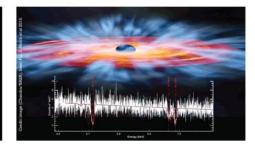
READ MORE



Athena Instrument Background

by Simone Lotti (INAF/IAPS, Rome) and Silvano Molendi (INAF/IASF, Milan)





How are winds generated around stellar-mass black holes and neutron stars?

by María Díaz-Trigo (European Southern Observatory)







- 11th of February: International Day of Women and Girls in Science.
 - Purpose: to promote and make more visible our female scientists' work.
 - Poster including the photos of most of the female members of the community (~200).







- 11th of February: International Day of Women and Girls in Science.
 - Videos of six of our female co-chairs sharing their life experience in Science













Posts Published from 11 February 2017 Impressions: Organic/Paid Post Clicks Reactions, comments & shares Published Post Type Targeting Reach 11/02/2017 10:56 Athena Community joins the 11th of February The United Nations declared 11th of February the Inter



athena2028 @athena2028 · Feb 11
Introducing Athena female scientists to the world
#WomenScienceDay #WomenAthenaC
ow.ly/HdEl308Takw pic.twitter.com/0oKl1UphVt

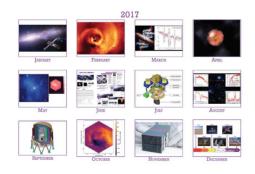
View Tweet activity

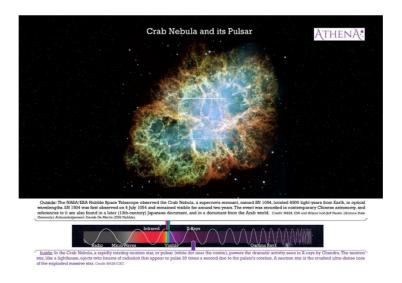
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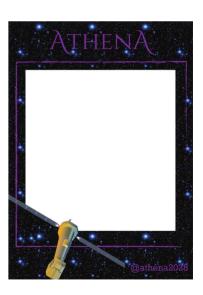


Outreach material

- ACO provides materials for pictures, flyers, texts, presentations and links to available Athena-related materials produced by other parties
- To build a network: AHEAD, MPE, IRAP, SRON, …











■ Participation at the European Researchers' Night (2016, 2017)



Outlook

- In summary, ACO is meant to be a focal point to facilitate the scientific exchange between the Athena activities and the scientific community at large, and to disseminate the Athena science objectives to the general public.
- Please, follow Athena on
 - Web: www.the-athena-x-ray-observatory.eu
 - Twitter: @athena2028
 - Facebook: The Athena X-ray Observatory
 - Youtube: Athena X-ray Observatory
- Any questions or suggestions please contact us at aco@ifca.unican.es

