

The Athena Community Office

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The *Athena* Community Office (ACO) supports ESA's *Athena* Science Study Team (ASST) in its role as "focal point for the interests of the broad scientific community". The ACO is led by the Instituto de Física de Cantabria (CSIC-UC). Further ACO contributors are IRAP, MPE and the University of Geneva.

The responsibilities assigned to the ACO are divided into four main categories:

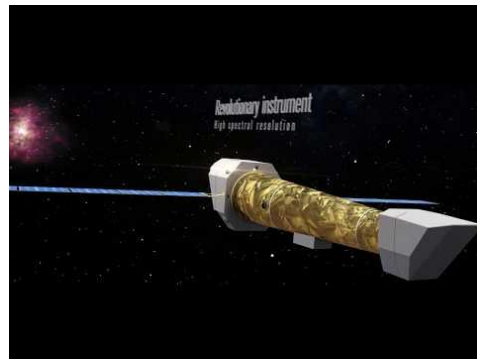
1. Optimisation of the community efforts assisting the ASST in several aspects, for instance supporting the production of ASST documents including the White Papers of the scientific synergies of *Athena* with other observational facilities in the early 2030s.
2. Organisational aspects such as helping to the promotion of *Athena* science capabilities in the research world, through conferences and workshops.
3. Keep the *Athena* community informed on the status of the project with the regular release of the newsletter, brief news, weekly news on the *Athena* web portal and in the social channels.
4. Develop communication and outreach activities, of particular interest are the *Athena* nuggets.

Athena: The Advanced Telescope for High Energy Astrophysics

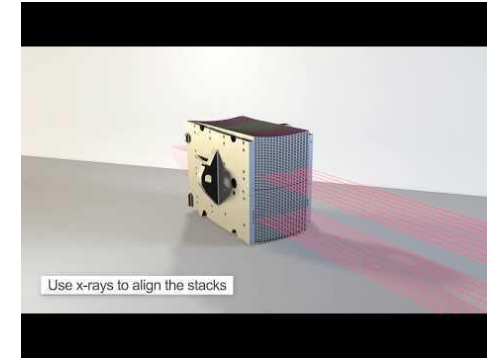
- ESA's Second Large 'Cosmic Vision' Mission
- Science theme: The Hot and Energetic Universe
 - How does ordinary matter assemble into the large-scale structure we see today?
 - How do black holes grow and shape the Universe?
- Broad impact across many areas of astrophysics

- X-ray Integral Field Unit (X-IFU)

- 2.5 eV @ 7 keV
- FoV: 5' diameter
- Pixel size ~5"

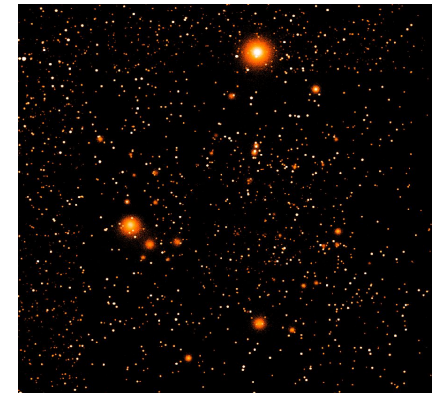


- Launch early 2030s
- L2 halo orbit planned
- Lifetime: 4 yr + extensions
- Uses Si-pore optics
 - 5" HEW on-axis
 - $\geq 1.4 \text{ m}^2$ area @ 1 keV
 - 0.25 m^2 area @ 6 keV



- Wide Field Imager (WFI)

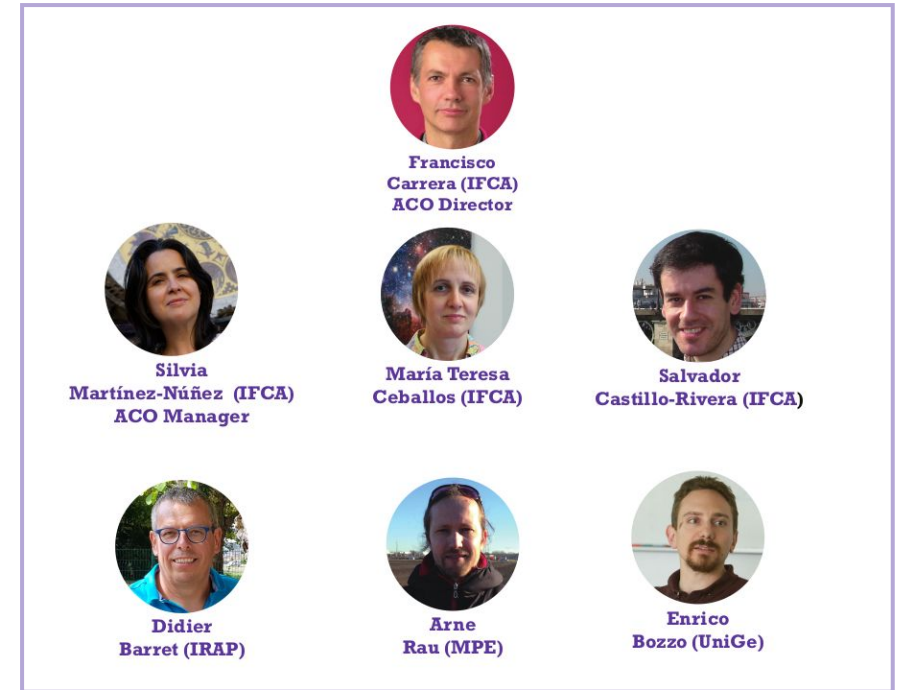
- spectral resolution: <80eV (1keV), <170eV (7keV)
- FoV: 40'x40' square
- 2.2" pixel size



Credits: A.Rau/WFI Team.

The Athena Community Office

- 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
- Responsibilities:
 - Organisational aspects and optimisation of community efforts
 - Keep 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
- [Call to join the Athena community opened until 31th of July 2020](#)



www.the-athena-x-ray-observatory.eu

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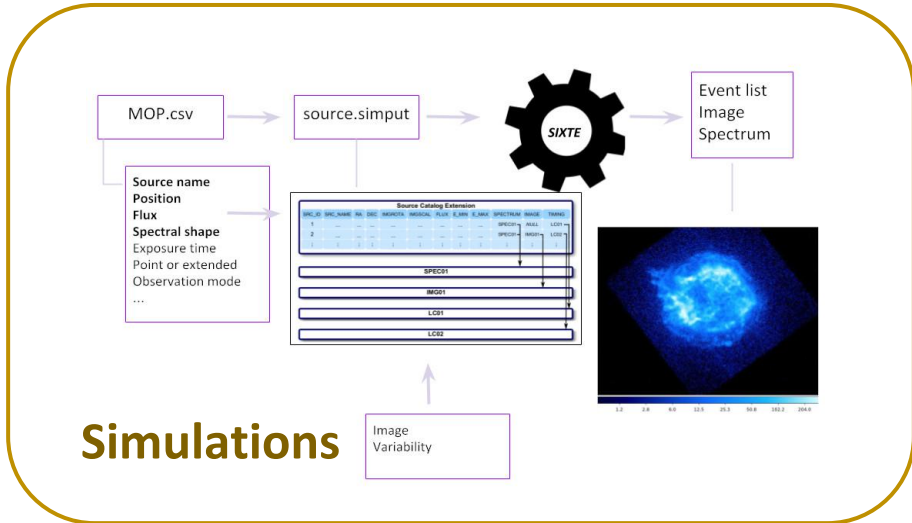


[@AthenaXobs](https://twitter.com/AthenaXobs)



[Athena X-ray Observatory](#)

Optimisation of the community efforts and organisational aspects

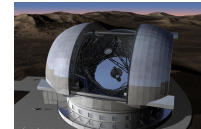


Synergies



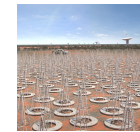
- ESO-Athena: [arXiv:1705.06064](https://arxiv.org/abs/1705.06064)

- Led by: P. Padovani
- Early groups & clusters, IM physics, missing baryons, SMBH history, AGN feedback, outflows, transient science, star formation & stars



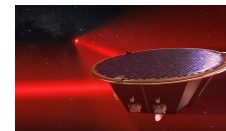
- SKA-Athena: [arXiv:1807.09080](https://arxiv.org/abs/1807.09080)

- Led by: R. Cassano.
- AGN, clusters & transients

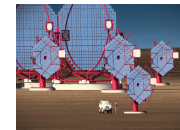


- Athena-Multi-messenger: 2020

- Led by: L.Piro
- LIGO/VIRGO, LISA, Theseus, KM3NET, ICECUBE, CTA



- Compact object mergers, transients (TDE, GRBs), WHIM, SNRs, blazars...



- Athena-LSST, ...

Keep the community informed and communication-outreach activities



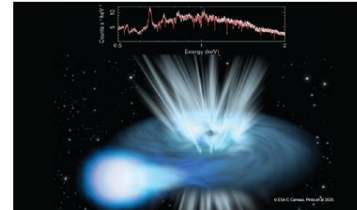
ATHENA:

The Athena X-ray Observatory: Community Support Portal



Athena Nuggets

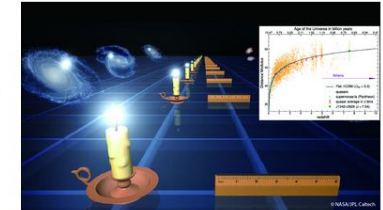
Small pieces of wisdom about scientific and technical topics with the aim of approaching Athena not only to the scientific community but also to the non-experts.



#AthenaNuggets 44: The hunt for super-Eddington accretion flows in ultraluminous X-ray sources



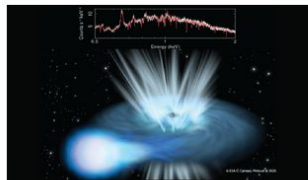
#AthenaNuggets 43: First development model of the X-IFU Focal Plane Assembly ready for test



#AthenaNuggets 42: Tracing the expanding universe with quasars



Latest activities & news



#AthenaNuggets: The hunt for super-Eddington accretion flows in ultraluminous X-ray sources, by Ciro Pinto
[3 Jun 2020] By Ciro Pinto. Ultraluminous X-ray sources



The Athena Science Study Team member Andy Fabian awarded the astrophysics Kavli prize 2020
[29 May 2020] On 27th of May 2020, the Norwegian Academy of Science and Letters announced the 2020 Kavli...



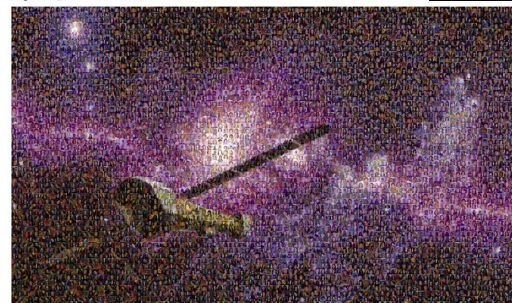
A new video of the Athena X-ray Integral Field Unit: unveiling the heart of the
[28 May 2020] The X-ray Int released a new video about t



ATHENA: Community



Newsletter #7 January 2020



11th of February 2020: Athena at the International Day of Women and Girls in Science

