

NAOC Seminar

Time: 14:30 May.19 Friday

Location: A601, NAOC

ESASky, ESA's new science-driven portal for ESA space astronomy missions

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Dr. Bruno Merín obtained his Master and Ph.D degrees from LATEE. After that, he worked as Post-doctoral Fellow at Leiden Observatory from 2004 to 2006 and ESA Research Fellow at ESTEC from 2006 to 2008. Then he became a Herschel Data Processing Scientist until 2015. Now, he is working as Astronomy Archives Science Lead at the ESAC Science Data Centre of ESA. Scientifically, he is interested in star and planet formation studies, mostly in transitional disks and large-scale statistics of disk evolution as compared with currently known statistics of exoplanet populations. For his functional work, he is interested in exploitation of the data from the Astronomy missions, scientific software, machine learning, astronomical archival research, usability of user interfaces and citizen science projects.

Abstract

ESASky is a new science-driven discovery portal for all ESA space astronomy missions (<http://sky.esa.int>). It also includes missions from international partners such as Suzaku, Chandra, and soon Spitzer. The first public release of ESASky features interfaces for sky exploration and for single and multiple target searches. Using the application requires no user registration, no prior-knowledge of any of the missions involved and gives users world-wide simplified access to high-level science-ready image data products and catalogues from INTEGRAL, XMM-Newton, Chandra, HST, Hipparcos, Gaia, ISO, Herschel and Planck. We will highlight the latest features developed, including one that allows the user to project onto the sky the footprints of the JWST instruments, at any chosen position and orientation to plan future observations and another that allows users to find solar system objects serendipitously observed by observatory missions. We will end by describing how the Chinese astronomical community can help shaping the future of this tool to maximize its usefulness for them.

