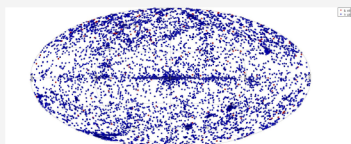


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NewAthena Community e-Newsletter

Issue #2 9 July 2024

New release of the XMM-Newton Serendipitous Source Catalogues, 4XMM-DR14 and 4XMM-DR14s



Released by the XMM-Newton Survey Science Centre (XMM-SSC) in collaboration with the XMM-Newton SOC, this version includes an extra year of data with respect to 4XMM-DR13. 4XMM-DR14 now has **over a million X-ray detections** (1035832) which relate to 692109 unique X-ray sources from 13864 observations that were public by the 31st December 2023. 4XMM-DR14 covers a total sky area, with at least 1 ks exposure, of 1383 square degrees if overlaps are taken into account, where some regions of the sky have been pointed as many as 90 times.

With the detection catalogue, **the stacked catalogue 4XMM-DR14s** created from overlapping observations has been also released. Some sources have a total of ~ 3 Ms of observation. Stacking results in better source parameters, higher sensitivity, and direct access to measures of long-term flux variability. 4XMM-DR14s contains 427524 sources, of which 329972 have several contributing observations.

You can find a more detailed description of the release and links to the data on the EU [XMM2Athena project web page](#).

Athena X-ray Advances Science Webinars

The *Athena* Science Webinars series will be taking a summer break and will return on **the 3rd of September** with the webinar titled "*Mysteries of exoplanets and low-mass stars and how to shed new X-ray light on them*" by **Katja Poppenhaeger** (AIP & Potsdam University).



We'd like to remind you that the recordings of the webinars are open access in [this YouTube playlist](#), including last week's webinar by Mauro Dadina. Additionally, the PDF version of the presentations are available in [this section](#) of the *Athena* community website.

Finally, we want to remind you that the deadline to submit proposals for giving a webinar in the next cycle (October 2023 - March 2024) is the **1st of September**. Please fill out [this form](#) to submit your proposal.



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