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Tens of thousands of clusters of galaxies among few million X-Ray sources on the SRG/eRosita map of the whole sky: synergy and competition of X-Ray and microwave sky surveys

Wednesday, 30 June 2021 14:00 (1 hour)

SRG spacecraft with eRosita and ART-XC X-ray telescopes is finishing the third all-sky survey, mapping millions of AGNs and quasars up to redshift $z=6.2$, hundreds of thousands of stars, and tens of thousands of extended X-Ray sources (mainly clusters of galaxies). We discover every day more than 5 celestial objects which increased during half a year their brightness more than 10 times. Some of them are good TDE candidates, some are flaring stars and AGNs.

I plan to discuss the progress in X-ray observations of clusters of galaxies, including examples when current X-Ray and microwave sky surveys are providing useful information on the physical properties of the detected clusters of galaxies.

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