



Mapping Large Scale Structures at High Energies: First Results from eROSITA on SRG (No 1689)

📅 30.06.2020 ⌚ 12:00 - 12:30 🗨 Plenary talk
🔗 Tuesday Plenary

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The emergence of the three-dimensional structure of the cosmic web over the history of the Universe displays very distinctive features when observed in X-rays, where both the most massive collapsed structure (clusters of galaxies) and the most energetic events in the life of galaxies (AGN and Quasars) reveal themselves unambiguously.

The next generation of wide-area, sensitive X-ray surveys designed to map the hot and energetic Universe will be heralded by eROSITA (extended ROentgen Survey with an Imaging Telescope Array), the core instrument on the Russian-German Spektrum-Roentgen-Gamma (SRG) mission, successfully launched in July 2019. The high sensitivity, large field of view, high spatial resolution and high survey efficiency of eROSITA is bound to revolutionize X-ray astronomy and deliver large legacy samples for many classes of astronomical objects in the energy range 0.2-8 keV.

I will present an overview of the instrument capabilities, the current status of the mission, a few early science results and the expectations for the survey program, which has completed in June the first observation of the whole sky.