

Astronomy and Space Sciences Seminar Series

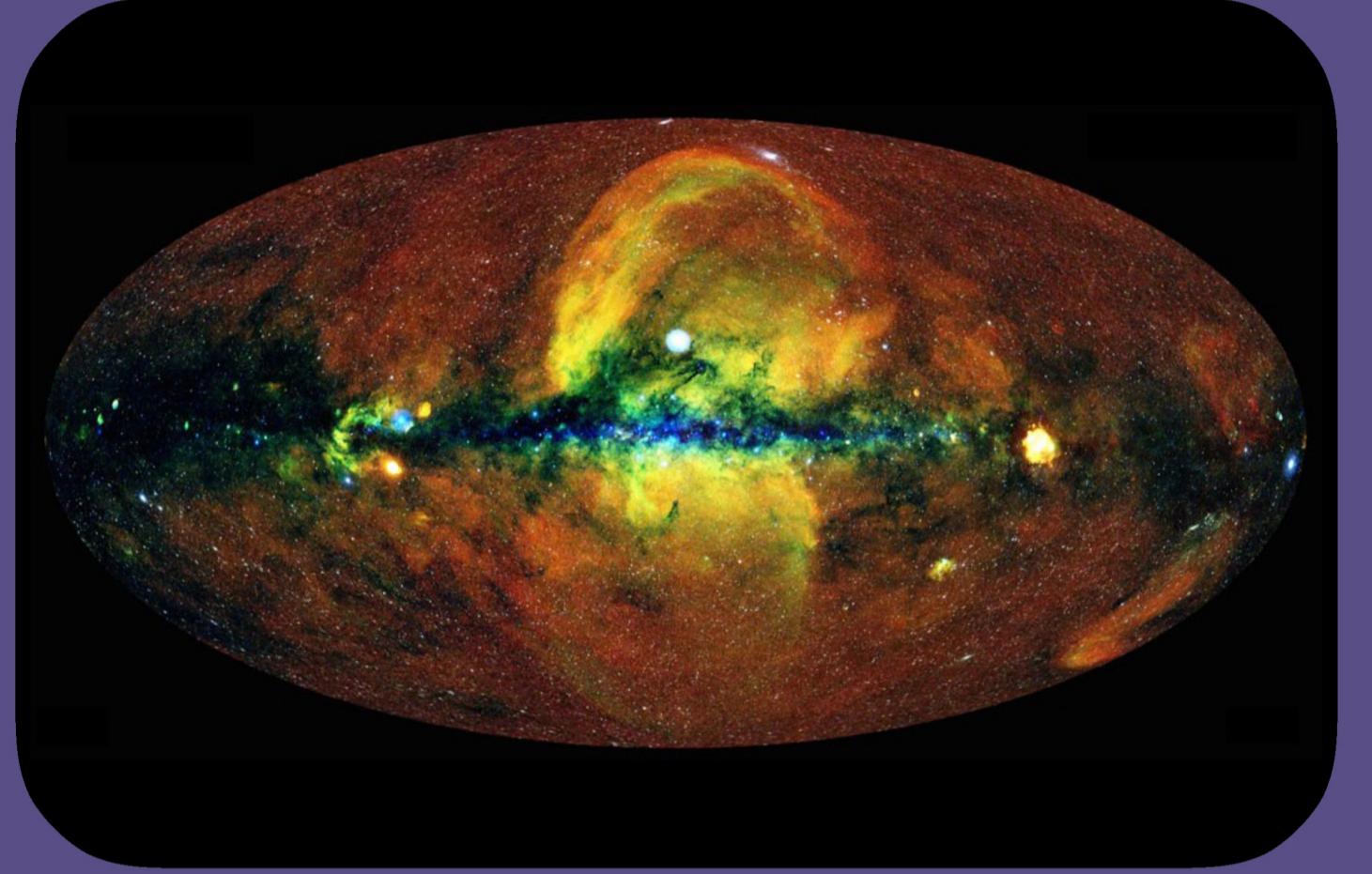
First Results from eROSITA: Astrophysics and Cosmology with Cluster of Galaxies

Virtual Venue: May 20 2021, 19:00 - 20:00 (GMT +3), Zoom Meeting ID: 962 6389 1593



Esra Bülbul

*Max Planck Institute for
Extraterrestrial Physics, Germany*



Credit: MPE/IKI

Galaxy clusters trace the highest peaks in the cosmic density field and offer an independent and powerful probe of the growth of structure, because their abundance and its evolution is strongly dependent on the underlying cosmology. The availability of the new all sky survey of galaxy groups and clusters in the X-ray band with eROSITA will put us on the verge of a breakthrough astrophysics and in precision cosmology. I will summarise the first results on clusters of galaxies from the eROSITA Final Equatorial Survey performed during the Performance Verification phase and describe the X-ray properties of the massive clusters detected in the first All-sky Survey. I will also present the new results from the first All-Sky Survey and provide an outlook for rich science that eROSITA will offer when combined with the other multi-wavelength surveys.

 **YouTube**

Live Stream:

<https://www.youtube.com/c/TUBITAKTBAE>