



Contribution ID: 165

Type: **not specified**

Late-time cosmology with the SKA Observatory

Tuesday, 28 November 2023 09:30 (30 minutes)

The SKA Observatory will play a major role in advancing the field of radio cosmology, measuring the positions and shapes of galaxies detected from the continuum and performing both galaxy surveys and intensity mapping measurements of the 21cm line of neutral hydrogen. In this talk, I will present the structure of the Cosmology Science Working Group briefly reviewing the status of the science cases of interest for the radio cosmology community, with a focus on the Italian contribution. I will then describe in further detail 21cm Intensity Mapping and discuss how such a technique can open a new observational window on dark matter and dark energy. I will present the current data-taking campaign of the SKAO precursor MeerKAT and the roadmap for the future.

Research area

Cosmology

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Session Classification: Plenary - Scientific Highlights on the Pathway to the SKAO