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Tracing the cosmic assembly of supermassive black holes and galaxies in the SKA era

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With its unparalleled combination of survey speed, angular resolution and sensitivity, the SKA promises to revolutionize our view of galaxy and supermassive black hole assembly over cosmic time. In this review talk, I will touch upon some key results obtained so far from radio-continuum surveys of SKA pathfinders and precursors. These were broadly aimed at: (i) calibrating radio-continuum as a star formation rate tracer to take a census of the star formation history in the Universe; (ii) assessing the incidence, evolution and impact of radio-emitting Active Galactic Nuclei (AGN), as a function of galaxy and environmental properties. These key topics set the stage for the main science drivers of the upcoming SKA. Finally, I will highlight the expected improvement firstly enabled by the SKA, and its synergic role to other multi-wavelength facilities.

Research area

Extragalactic Continuum (galaxies/AGN, galaxy clusters)

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