

Keynote - Cosmology from Radio Continuum Surveys

jeudi 12 juin 2025 09:40 (40 minutes)

Surveys from modern radio telescopes, such as the precursor/pathfinder telescopes for the Square Kilometre Array Observatory (SKAO) are currently transforming the knowledge which we have of the radio skies. Telescopes such as the Australian Square Kilometre Array Pathfinder (ASKAP), Low Frequency Array (LOFAR) and MeerKAT are producing a number of radio continuum surveys which have a combination of depth and area which make them ideal for cosmological studies. In this talk I will outline some of the radio surveys being undertaken, discuss their challenges and discuss their benefits for use in radio cosmology studies. I will then present results from initial studies being conducted with current data releases available from the LOFAR surveys and ASKAP, before discussing the future surveys which will be possible from these telescopes and the SKAO. For these future surveys I will outline the key scientific questions which these radio surveys will address within the topic of cosmology.

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Classification de Session: COLOURS Workshop