

The Evolutionary Map of the Universe

Tuesday, 7 May 2024 09:00 (25 minutes)

EMU, the Evolutionary Map of the Universe, is an ongoing ASKAP survey of the southern hemisphere, delivering 943 MHz continuum images with rms noise of about 20 microJy/beam at 15 arcsec resolution. EMU is supporting a broad range of science, spanning star formation and evolution in our own Galaxy, galaxy evolution and the links between star formation and supermassive black holes, to cosmology. EMU will be the touchstone radio continuum survey in the south for the foreseeable future. EMU provides an ideal resource for defining galaxy samples to understand the link between gas fuelling and both AGN and star formation processes, as each are intimately associated with the radio continuum. Moreover, given the overlap with the WALLABY HI ASKAP survey, neutral gas information will also be available for a significant fraction of low-redshift EMU sources. I will summarise the current status of EMU, how to access and use the data and how get involved in the project.

keywords

Survey overview, science updates, cross-team collaboration

In-person or online?

online

Career level

Mid-Senior

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Session Classification: Surveys