



Contribution ID: 63

Type: Oral

The SCORPIO project: the first ASKAP glimpse in the Galactic plane - 25'

Tuesday, 4 December 2018 12:30 (25 minutes)

SKA precursors are going to revolutionize our view of the Milky Way. ASKAP is entering its regime phase and one of its large program, EMU, is the largest radio survey ever designed at the planned depth of $10 \mu\text{Jy}/\text{beam}$. In the wide context of the preparation for EMU and ASKAP we present the SCORPIO project, an ATCA survey of a patch of the Galactic plane, originally covering a ~ 5 -square-degree. SCORPIO has recently been extended to ~ 40 -square-degree thanks to the first ASKAP early science data, being the first Galactic field ever imaged at this frequency by an SKA precursor. In this talk we show the major scientific results we are obtaining on point and extended sources in the general context of stellar evolution. We present also the first ASKAP early science observation of SCORPIO, carried out in January 2018 at a central frequency of 912 MHz. We highlight the surprising capability of ASKAP to image wide fields toward the Galactic plane also in view of EMU.

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Session Classification: Science with SKA Precursors and Pathfinders