

Update on the SKA-Low Aperture Array Verification System 3 (AAVS3)

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The Aperture Array Verification System 3 (AAVS3) is a single-station SKA-Low prototype located at Inyarrimanha Ilgari Bundara, the CSIRO Murchison Radio-astronomy Observatory. AAVS3 is a crucial milestone in the SKA-Low project: it is the first instrument owned, operated and maintained by SKAO staff in Australia. Moreover, through the implementation of next-generation prototype digital systems, AAVS3 represents a significant evolution from previous SKA-Low technology demonstrators. I will discuss ongoing commissioning and verification activities with AAVS3. Of particular importance is a comparison with its predecessor, AAVS2, so as to inform a decision on the optimal layout of the antennas in SKA-Low stations. Early engagement with AAVS3 will also be highly beneficial for the development of SKA-Low science operations procedures. I will conclude with a future outlook towards the first of the planned SKA-Low array assemblies (AA0.5), which will comprise six stations and will be deployed by November later this year.

keywords

SKA-Low commissioning; preparing for SKA science

In-person or online?

online

Career level

Mid-Senior

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