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WAVES: The Wide Area VISTA Extragalactic Survey

Thursday 10 July 2025 12:00 (30 minutes)

The WAVES survey is a major galaxy redshift survey that will be conducted on 4MOST, scheduled to begin its scientific operations in early 2026. Expected to collect redshifts for 1.6 million galaxies, this survey will build a highly complete view of galaxy environment, over large areas of the sky, and also extending out to $z=0.8$. The backbone of this project is the wealth of multi-wavelength imaging data, which has been meticulously processed to produce an enormous photometric catalogue over ~ 1300 square degrees. This input catalogue will facilitate one of the first survey selections with a photometric redshift cut - a critical element of WAVES. I will present the WAVES sub-surveys, targeting strategy, and an overview of the wealth of science expected to be conducted with the data in the coming years.

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