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Simone Bianchi - Exploring the mm-to-cm SED of nearby spirals

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The Spectral Energy Distribution (SED) of galaxies in the mm-to-cm spectral window is the result of emission from cold dust grains, free-free, and synchrotron radiation. A multi-wavelength coverage of this range allows to disentangle the different contribution of these components, offering the possibility to investigate on the validity of current dust models and to estimate the star-formation rate without being affected by extinction. Yet, the mm-to-cm SED of galaxies is poorly known: I will discuss a case for exploring it with the instruments soon to be available at the Sardinia Radio Telescope, and present the results of a pilot SRT program to search for the Anomalous Microwave Emission, supposedly due to dust, in nearby galaxies.

Session Classification: Local Universe