

The IRAM 30m telescope: a versatile facility of (sub-)mm astronomy



KEYWORDS: IRAM, 30m telescope, radio telescope, radio astronomy, mm astronomy, sub-mm astronomy, radio observations, spectral line, continuum, solar system, ISM, galaxies, EHT

SUMMARY: This special session aims to disseminate the knowledge on the IRAM 30m infrastructure and its role in the broader Spanish astronomical community. The IRAM 30m telescope, located on Pico Veleta of Sierra Nevada, is a versatile instrument that can be used to carry out very sensitive spectral line and continuum observations over a broad range of mm and submm wavelengths (80 – 370 GHz / 3 – 0.8 mm). The scientific projects pursued with the 30m telescope cover a wide range of topics, all the way from solar system and ISM studies to galactic research in the low and high redshift universe. Moreover, through synergies with the NOEMA interferometer of IRAM and as a key antenna in the Event Horizon Telescope (EHT) VLBI array, the 30m telescope is used to study the Universe in high resolution. The timeliness of this session is emphasized by the ongoing efforts to upgrade the IRAM 30m infrastructure and improve its capabilities.

Closed program: No external contributions accepted.

SOC: Miguel Sánchez-Portal (Station Manager) – chair; Brisa Mancillas-Vaquera (Astronomy Support) – co-chair; Myserlis (Astronomy Support) – co-chair; Pablo Torné (Astronomy Support) – co-chair; Manuel Castillo (Station Manager); Carlos Durán Urrutia (Head of Instrumentation group); Salvador Sánchez García (Head of Engineering group); Ángel M. Bongiovanni (Astronomy Support); Gabriel Paubert (Astronomy Support); Ángel M. Bongiovanni (Astronomy Support); Stergios Amarantidis (Astronomy Support); Carsten Kramer (30m Science Coordinator)

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