

Future Developments of IRAM Instruments – or – IRAM’s efforts to allow fulfilling promises

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Observations of dust and gas in interstellar space have made dramatic progress over the last 30 years. And progress will certainly not stop here. Many fundamental promises of ISM astrophysics and astrochemistry yet have to be fulfilled and IRAM’s developments are focused to allow important next steps in this endeavor. Beyond the natural quest of more sensitivity and higher spatial resolution, millimeter astronomy will reach out for instrumentation which produces complete high-resolution spectral coverages and large-scale mapping. Ambitious plans for both IRAM observatories, the 30m telescope and NOEMA, are well advanced. The resulting data sets are of unseen size and complexity and will allow and demand for new approaches of data analysis and modeling.

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