

## Winter Meeting 2024



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# Radio observations of star-forming regions

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The field of star formation has experienced great progress in the last years thanks to significant improvements in instrumentation. The next generation of radio telescopes (ngVLA and SKA) will significantly improve the sensitivity and angular resolution of current radio interferometers. These improvements will allow us to study regions of our Galaxy in greater detail and to complement observations at other wavelengths.

In this talk, I will discuss ongoing projects focused on characterizing the young stellar population and tracing the evolutionary sequence of star-forming regions, as well as the importance of studying the early stages of protostars to determine the final properties of stars and their planetary systems. I will also talk about source detection and classification algorithms needed to deal with the large amount of data that will be obtained from the new generations of telescopes.

**Primary author:** DÍAZ MÁRQUEZ, Elena

**Presenter:** DÍAZ MÁRQUEZ, Elena