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A multi-scale and multi-wavelength view of the star formation process

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In the last few years, the field of star formation has experienced significant advances thanks to the major improvement in instrumentation. The increase in angular resolution and sensitivity make now possible to study with unprecedented detail the obscured regions in the Milky Way, the protostellar embryos, unveiling the physical processes that give rise to the formation of Sun-like stars as well as of more distant regions harboring high-mass stars.
In this talk I will present a compilation of several ongoing observational projects aimed at understanding how the large-scale molecular cloud material fragments into multiple cores that will eventually further collapse to form a protostar. In particular, I will focus this talk on how we can characterise the very young members in nascent open clusters following a multi-scale and multi-wavelength approach, with particular emphasis on ALMA and JVLA observations.

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