

SEMINARIO DEL DEPARTAMENTO DE  
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## Stars, Planets and Rocks

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**Abstract:** The formation of circumstellar discs is a natural by-product of star formation. Planetary systems and planets are thought to originate from those accreting, disc-like structures via grain growth and planetesimal formation. It is not known, however, whether planet formation is nearly as universal during disc evolution as is the formation of discs during star formation. The planets and dusty debris discs around main-sequence stars, discovered in the last 15 and 25 years, respectively, demonstrate that such physical processes do have taken place in, at least, a non-negligible fraction of stars. In this talk we will briefly described, from an observational point of view, the steps leading from the early stages of star formation to the planetary/planetesimal systems around mature stars. In the last part of the talk, a description and first results of the Herschel Key Programme DUNES (Dunes around nearby stars) will be presented.

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