Objective

Planet formation is a widespread by-product of the process of star formation itself and occurs within relatively thin and dense protostellar discs made of gas and dust that orbit the newborn star. Such discs can now be probed with unprecedented detail thanks to high resolution telescopes and instruments, such as the Atacama Large Millimeter Array (ALMA) at sub-millimeter wavelegths or the SPHERE instrument at the Very large telescope (VLT) in the near infrared, which are both capable of probing nearby star formation regions with a spatial resolution of a few astronomical units.

The overall aim of this project is to strengthen the collaboration of groups located in Europe, USA, Chile and Australia - many of them already collaborating actively - in order to (1) develop and use suitable numerical algorithms and techniques to address key unsolved issues related to the interaction of newborn planets with the
gas and dust environment in which they are born and (2) to compare such models with the most advanced observations of protostellar discs, obtained with high resolution telescopes in the IR and sub-mm.

Field of science

/natural sciences/physical sciences/astronomy/planetary science
/engineering and technology/environmental engineering/energy and fuels/fossil energy/gas
/natural sciences/physical sciences/astronomy/planetary science/celestial mechanics
/natural sciences/physical sciences/astronomy/planetary science/planets

Programme(s)

Topic(s)

Call for proposal

H2020-MSCA-RISE-2018

Funding Scheme

MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Coordinator

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Italy

Website Contact the organisation

Activity type EU contribution
Higher or Secondary Education Establishments € 174 800

Participants (4)

ECOLE NORMALE SUPERIEURE DE LYON

France

EU contribution € 105 800
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<th>Activity type</th>
<th>EU contribution</th>
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<td>Higher or Secondary Education Establishments</td>
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<td>Research Organisations</td>
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**UNIVERSITY OF LEICESTER**

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€ 133 400

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**EUROPEAN SOUTHERN OBSERVATORY - ESO EUROPEAN ORGANISATION FOR ASTRONOMICAL RESEARCH IN THE SOUTHERN HEMISPHERE**

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