



College of Engineering, Mathematics and Physical Sciences  
Astrophysics Group

### 3-year Postdoctoral Position on Protoplanetary Disk Structure & Planet Formation

The Astrophysics Group of the University of Exeter wishes to recruit a highly qualified postdoctoral researcher to work on observational studies on protoplanetary disk structure and planet formation.

The post is available for 3 years beginning November 2017, with a 12-month probationary period. Later start dates in 2018 will also be considered.

The fellow will join an ambitious team of postdocs and PhD students and work with Prof. Stefan Kraus on studying time-variable, planet-induced structures in the inner-most AU of protoplanetary disks. We have access to data from ALMA, the VLT Interferometer, and the CHARA array and lead the CHARA/MIRCx instrumentation project that will enable efficient milliarcsecond-resolution imaging of young stellar objects. The fellow will be involved in the commissioning and scientific exploitation of this new instrument and work on interpreting the observations with the latest physical models. We are particularly interested in applicants with expertise in radiative transfer modelling of complex multi-wavelength data sets and/or in high-angular imaging techniques (e.g. ALMA, VLTI, adaptive optics). Prior experience with the technique of interferometry is not required, but would be an asset.

The position is funded by the European Research Council (ERC), with an annual salary in the range GBP 28,452 to GBP 33,943. Applicants must possess a PhD in astrophysics or a related discipline by the start date of the appointment.

The successful applicant will possess specialist knowledge in the field of radiative transfer modelling, in high angular resolution imaging, or in the theory of protoplanetary disks or planet formation. The post offers opportunities to work with our collaborators at the University of Michigan and at Georgia State University, and includes funding for computing equipment and travel as well as guaranteed access to the Exeter supercomputing facilities.

Further information on the Exeter Astrophysics Group can be found here: <http://www.astro.ex.ac.uk>  
Detailed enquiries regarding scientific aspects of the project can be addressed to:

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#### HOW TO APPLY FOR THIS POSITION:

Applications should arrive by September 3, 2017, and include a curriculum vitae, publication list, a brief statement of research interests, and contact details for three referees that can provide recommendations in support of the application. To apply please visit the following website:

<https://goo.gl/n2AVr6>

(alternatively visit the Exeter online application website <https://jobs.exeter.ac.uk> and search for the job reference number **P58132** in the keywords field)