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# New Trends in Representation Theory - The Impact of Cluster Theory in Representation Theory

LMS-CMI Research School

University of Leicester

19-23 June 2017

**Organisers:** Karin Baur (U Graz) and Sibylle Schroll (Leicester)

The focus of the course is on recent advances that have emerged in representation theory through cluster theory:  $n$ -representation theory, integrable systems and friezes, and sifting and infinite dimensional representations. These areas of mathematics are enriched by their interactions with other areas of mathematics such as category theory, dynamical systems and mathematical physics.

## Lecture Courses

**Peter Jorgensen** (Newcastle) *n*-representation theory

**Sophie Morier-Genoud** (Paris) *Integrable systems and friezes*

**Lidia Angeleri-Hügel** (Verona) *Infinite dimensional representations*

These lecture courses will be supplemented by tutorial sessions.

**Guest lectures:** **M. Herschend** (Uppsala), **P.-G. Plamondon** (Orsay) and **M. Prest** (Manchester)

For further information, please visit: <https://sites.google.com/site/clustertheoryinrepthery/>

**Apply** online ([www.surveymonkey.co.uk/r/RS-28-NewTrendsInRepresentationTheory](http://www.surveymonkey.co.uk/r/RS-28-NewTrendsInRepresentationTheory)) by **24 March 2017**. Research students, post-docs and those working in industry are invited to apply.

\*All applicants will be contacted within three weeks after the deadline; information about individual applications will not be available before then.\*

## Fees

Research students: **£150**. There will be no charge for subsistence costs.

Early career researchers: **£250**. There will be no charge for subsistence costs.

Other participants (e.g. those working in industry): **£250** plus subsistence costs.

Research students who have not completed their PhDs by the start of the Research School and who would otherwise be unable to attend can apply for financial aid.

Fees are not payable until a place at the Research School is offered but will be due by 19 May 2017.



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