



LONDON
MATHEMATICAL
SOCIETY
EST. 1865

Developments in Contact and Symplectic Topology

LMS-CMI Research School, Glasgow 20-24 June 2016

Organisers: Brendan Owens, Andy Wand, Liam Watson

A key result of Borman-Eliashberg-Murphy in 2014 gave a dramatic advance in our understanding of contact topology in higher dimensions: using an h-principle argument, they extended Eliashberg's classification of flexible contact structures in three dimensions to arbitrary dimension. This result generated a great deal of activity in high-dimensional contact topology, leading to a rapidly growing understanding of which aspects of the theory in three dimensions can be generalised to higher dimensions, and of new phenomena which arise in high dimensions. This LMS-CMI Research School will give students a comprehensive and accessible introduction to key aspects of contact topology in three dimensions and to the new frontier of high-dimensional contact topology. This is a unique opportunity for students and early-career researchers to get a hands-on guided tour of an exciting and fast-developing area of research from a world-leading team of experts.

The three main lecture course topics are:

Open book decompositions and applications. (Vincent Colin, Université de Nantes.)

Applications of flexibility in high dimensional contact geometry (Emma Murphy, MIT)

Contact topology and Heegaard Floer theory (András Stipsicz., Alfréd Rényi Institute of Mathematics.)

These lecture courses will be supplemented by tutorial sessions. For further information please visit: <http://ow.ly/XAuob>.

Apply by Monday 28 March 2016 (<http://ow.ly/XAuqY>). Places are limited and those interested are advised to make an early application. Research students, post-docs and those working in industry are invited to apply. *All applicants will be contacted within two weeks after the deadline; information about individual applications will not be available before then*

Registration Fees

All research students: £150. There will be no charge for subsistence costs. All early career researchers: £250. There will be no charge for subsistence costs. Fees are payable only when a place on the course is offered. Fees are due by Friday 13 May 2016. Travel Costs: All UK-based participants must pay their own travel costs. For overseas-based participants, support will be available to contribute towards travel costs.

