

# LMS joint research group: New mathematical methods for open quantum systems

## Nottingham University Meeting

10th of July 2017

University of Nottingham  
Physics Building, room C29

Organisers: Sven Gnutzmann (University of Nottingham), Roman Schubert (University of Bristol), Eva-Maria Graefe (Imperial College London)

### Programme

- 10:30**    **Coffee and Welcome**
- 11:00**    **Gerardo Adesso** (University of Nottingham)  
Quantum Resource Theories
- 11:50**    **Beatriz Olmos Sanchez** (University of Nottingham)  
Dense Atomic Gases: From Superradiance to Topological Quantum Phases
- 12:40**    **Lunch**
- 14:00**    **Dmitry Shalashilin** (University of Leeds)  
Basis Sets of Trajectory Guided Gaussian Coherent States for Quantum Dynamics
- 14:50**    **Coffee and time for discussions**
- 15:30**    **John Barrett** (University of Nottingham)  
tba  
(topic: Random-Matrix Theory and Approaches to Quantum Gravity)
- 16:20**    **Steve Mudute-Ndumbe** (Imperial College)  
A PT-Symmetric Version of a Kicked Top
- 16:45**    **Concluding remarks followed by drinks at  
The Johnson Arms in Dunkirk**

Please register your attendance by emailing [sven.gnutzmann@nottingham.ac.uk](mailto:sven.gnutzmann@nottingham.ac.uk) by the 3rd of July. (This is merely to estimate how much coffee and sandwiches we need.)