

# Generalised Langevin Equation: Theory & Applications

12 - 13 January 2017

King's College London, London, The Strand, WC2R 2LS, U. K.

$$\mathbf{M}_{11} \partial_t^2 \langle \mathbf{x}_1 \rangle_t^S = \mathbf{F}_1(t) + \mathcal{R}_1(t) - \int_{t_0}^t \mathbf{K}_{11}(t, \tau) \partial_t \langle \mathbf{x}_1 \rangle_\tau^S d\tau$$

During this workshop we would like to review current developments and discuss the state-of-the-art in the **dynamics of open classical and quantum systems**, with a specific emphasis on stochastic methods originating from the Generalised Langevin Equation approach.

Additionally, in the afternoon of the 13<sup>th</sup> of January a GLE based technique (both theory and software implementation) developed at King's College London for performing **MD simulations on an open classical system**, will be presented. We shall also run a tutorial class on practical applications of the method.

## Invited speakers

Wang Jian-Sheng (National University of Singapore)  
 Fernando Bresme (Imperial College, London)  
 Felix von Oppen (Freie Universitat Berlin)  
 Fabian Menges (IBM Research, Zurich)  
 Mads Brandbyge (Technical University of Denmark) - TBC  
 Suman Kumar Banik (Bose Institute, Chemistry, Kolkata, India) - TBC  
 Roberto D'Agosta (Universidad del Pais Vasco, E-20018 San Sebastian, Spain)

**Register:** <http://gle2017.weebly.com>

**Submissions deadline:** 12.12.2016