



Universität Ulm | 89069 Ulm | Germany

**Fakultät für Mathematik und  
Wirtschaftswissenschaften**  
Institut für Stochastik

**Professor Dr. Volker Schmidt**

Helmholtzstraße 18  
89081 Ulm, Germany

Tel: +49 731 50-23532  
Fax: +49 731 50-23649  
volker.schmidt@uni-ulm.de  
<http://www.uni-ulm.de/stochastik/>

## **Einladung zum Vortrag**

von

**Prof. Dr. Alison Walker**  
UNIVERSITY OF BATH, UK

**2. Dezember 2013**

### **Multiscale modelling of organic devices by Kinetic Monte Carlo**

This talk shows how the Kinetic Monte Carlo modelling technique is used at the mesoscopic level to generate device characteristics based on materials parameters generated at the microscopic level. These simulations show how the packing of the molecules or polymers influences device performance. By allowing for particle-particle interactions, we can see how exciton-exciton and exciton-charge interactions, including Coulomb interactions, change device characteristics. I will show how at Bath we have applied this approach initially to study organic photovoltaic and more recently to organic light emitting devices and the doped organic hole transporters that are used in the recently developed perovskite cells.

**Termin: Donnerstag, 06. Februar 2014, 10:00 Uhr**

**Ort: Universität Ulm, Helmholtzstr. 18, Raum 120**

Interessenten sind herzlich eingeladen.

gez. V. Schmidt