Einladung zum Vortrag

von

Prof. Dr. Alison Walker
UNIVERSITY OF BATH, UK

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