

# PHYSIKALISCHES KOLLOQUIUM

Mittwoch, den 09.06.2010, um 15:30 Uhr

Ort: Reichenhainer Str. 90; Neues Hörsaalgebäude, Raum: 2/N013

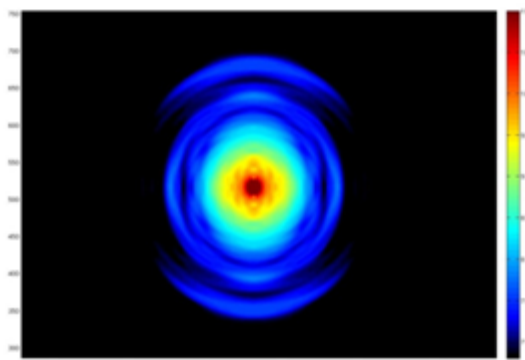


**Prof. Dr. Eleanor E.B. Campbell**

**School of Chemistry,  
Edinburgh University**

## **Molecule, Cluster or Bulk: the Unusual Properties of Fullerenes**

Fullerene molecules have fascinated physicists, chemists and materials scientists since their discovery in 1985. Their beautiful, hollow cage-like structure combined with a vast array of interesting properties and relative ease of handling has made them suitable as model systems for probing and understanding the behaviour of molecular systems with a large number of degrees of freedom. I will give an overview of the properties of fullerenes, concentrating on studies of fullerenes in the gas phase and show how their properties can vary between atom-like to bulk-like depending on the particular experiments. I will also discuss some unique and fascinating aspects of fullerenes related to their relatively low ionisation potential and their hollow structure.



The kinetic energy and angular distribution of electrons emitted from C60 after excitation with a low intensity 120 fs laser pulse, obtained with a velocity map imaging spectrometer.

Alle Zuhörer sind ab 15:15 Uhr zum Kaffee vor dem Hörsaal eingeladen.