

MAR06-2005-001463

Abstract for an Invited Paper  
for the MAR06 Meeting of  
the American Physical Society

**Electron-vibron coupling in single molecule transistors**

KARSTEN FLENSBERG, Niels Bohr Institute

I discuss coupling between electron transport and vibrational degrees of freedom in single-molecule and nanotube systems. The coupling gives rise several effects such as sidebands in the differential conductance, rectification due to polaron formation, and interesting interplay with the Kondo resonance.