北京大学量子材料科学中心

Transport in epitaxial graphene on the nanoscale

Martin Wenderoth

Georg - August - University of Göttingen

Time: 4:00pm, Jan. 18, 2019 (Friday)

时间：2019年1月18日 （周五）下午4:00

Venue: Room W663, Physics building, Peking University

地点：北京大学物理楼，西663会议室

Abstract

The transport properties of epitaxial graphene have been subject of intense theoretical and experimental investigations since its invention. Besides electron-electron and electron-phonon scattering, the charge transport is determined by structural defects such as impurities, substrate steps or monolayer/bilayer junctions. The latter are leading to a spatially varying potential landscape as well as a Tf1 0 0 1 442.3 382.27 Tm0

About the speaker

Education:
1982 - 1988 Study of Physics at the University of Dortmund
1988 Diploma in Physics
1988 - 1992 Ph.D. in Physics, Georg - August - University of Göttingen
2017 Habilitation in Physics, Georg - August - University of Göttingen
Employment:
1992 - today Akademischer Rat, Georg - August - University of Göttingen
Areas of Research:
Correlation effects in electronic and magnetic systems
Transport in ultra - thin films
Single impurities in semiconductors and in metals
Semiconductor heterostructures
Compound systems of magnetic metals on semiconductors
Nano scale characterization based on scanning probe techniques (e.g. crosssectional STM/STS/STP at low temperature)