Seminarankündigung

Montag, 27. März 2017
16:00 Uhr
ZNN, Seminarraum EG 0.001

“Graphene heterostructures for energy harvesting applications”

Carbon nanomaterials such as graphene and carbon nanotubes have been envisaged to play a key role in future electronics due to their outstanding physical properties. Nevertheless, the challenges for its realization are non-trivial and the future role of these materials in electronics remains uncertain. Graphene has the highest thermal conductivity ever measured which combined with its high electrical conductivity does not make it a great candidate for thermoelectric (TE) applications. In this talk I will give an overview in graphene production techniques and how graphene combined with other traditionally poor TE materials, such as SiO2, has been measured to have a figure of merit comparable to traditional inorganic materials for this kind of applications.

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