DS 26: Gaede Prize Talk

Time: Wednesday 12:30-13:00

	DS 26.1	Wed 12	2:30 H	ISZ 02
Spectroscopy and microscopy of graphene on metals — $\bullet \mathrm{Yuriy}$				
DEDKOV — SPECS Surface Nano A	nalysis Gm	bH, Berl	in, Ger	many
Graphene on metals, which struct matched to commensurate moiré str			-	

Graphene on metals, wh ce matched to commensurate ferent kinds of surface science experiments allowing to study many fascinating phenomena. Here we present several examples on the ap-

plication of electron spectroscopy (NEXAFS, XMCD, XPS, ARPES) and scanning probe methods (STM and AFM) for the investigation of the electronic structure of these systems. These combined approaches allow to understand the bonding mechanism at the graphene-metal interface, the main features of the graphene-derived electronic structure as well as the imaging contrasts in the scanning probe experiments. All experimental data are compared with the state-of-the-art DFT calculations that lead to the deep understanding of the observed phenomena.

Location: HSZ 02