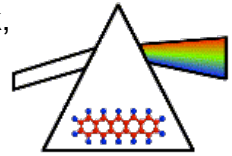


Sächsische Forschergruppe  
„From local constraints to  
macroscopic transport“  
DFG-FOR 877

TU Chemnitz, Institut für Physik,  
„Optische Spektroskopie und  
Mikroskopie in kondensierter  
Phase“



## Gastvortrag

Donnerstag 19. 4. 2012  
um 11:00 Uhr

TU Chemnitz  
Reichenhainer Str. 70  
Neues Physikgebäude  
Raum P032



Dipl. Phys. Peter Loskill  
Universität des Saarlandes  
Saarbrücken

## Is adhesion superficial? Silicon wafers as model system to study van der Waals interactions.

Adhesion is a key issue for researchers of various fields, it is therefore of uppermost importance to understand the parameters that are involved. Commonly, only surface parameters are employed to determine the adhesive forces between materials. Yet, van der Waals forces act not only between atoms in the vicinity of the surface, but also between atoms in the bulk material. In this talk the principles of van der Waals interactions are described and illustrated by experimental data on biological adhesion. Moreover, the question will be addressed if silicon wafers with native oxide layers are a good model substrate to study van der Waals interactions with coated materials.

Lit: arXiv:1202.6304v1