

Workshop on Electronic Properties of Monolayer MoS₂

2 October 2013 (10 Mehr 1392)

A one-day workshop is organized by the school of physics. This workshop is aimed at advanced graduate students, postdocs and researchers in areas related to new two-dimensional materials, MoS₂. The lectures cover various electronic aspects from the basic theory of the electronic structure of monolayer MoS₂, some optical and transport properties.

Lecturers:

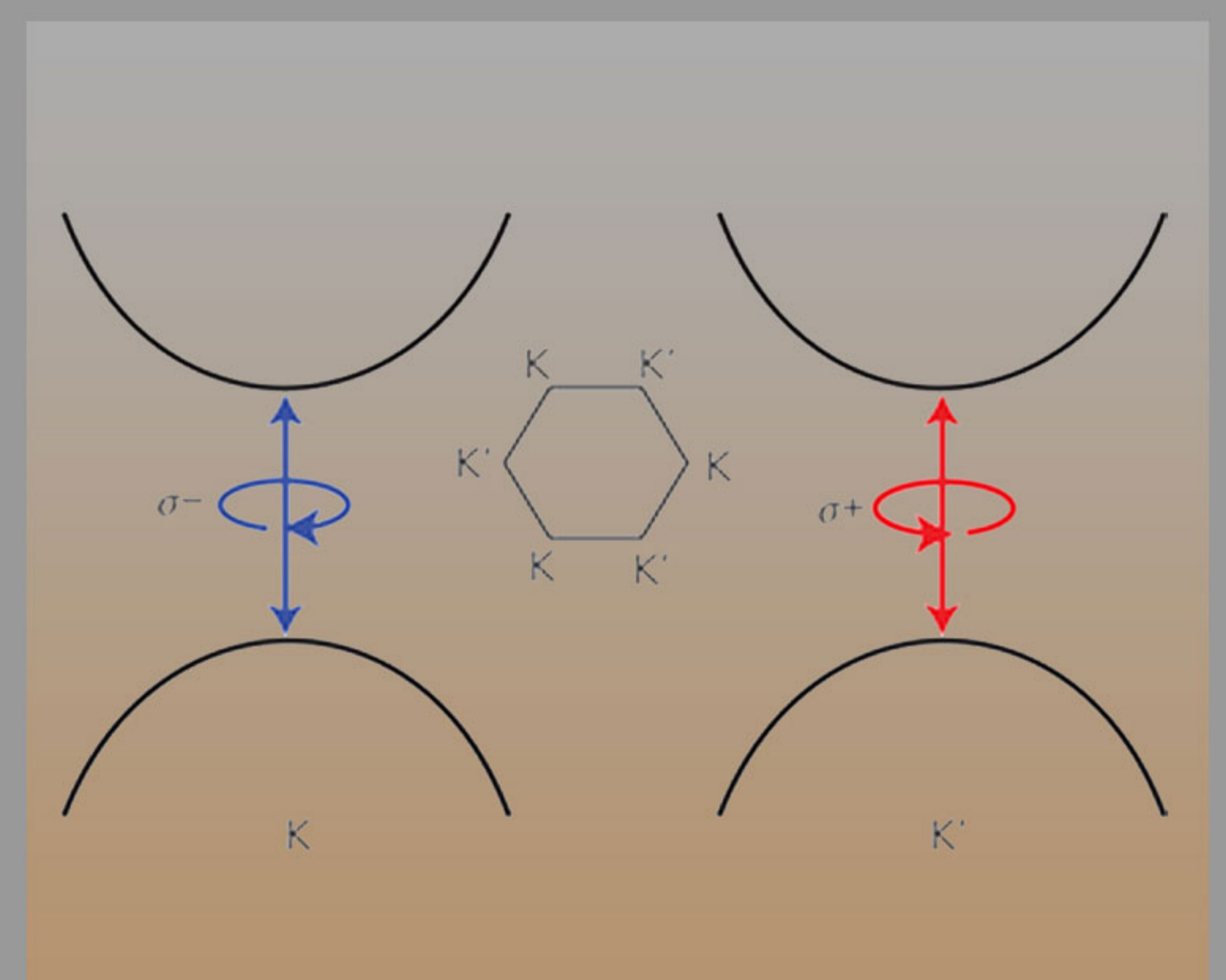
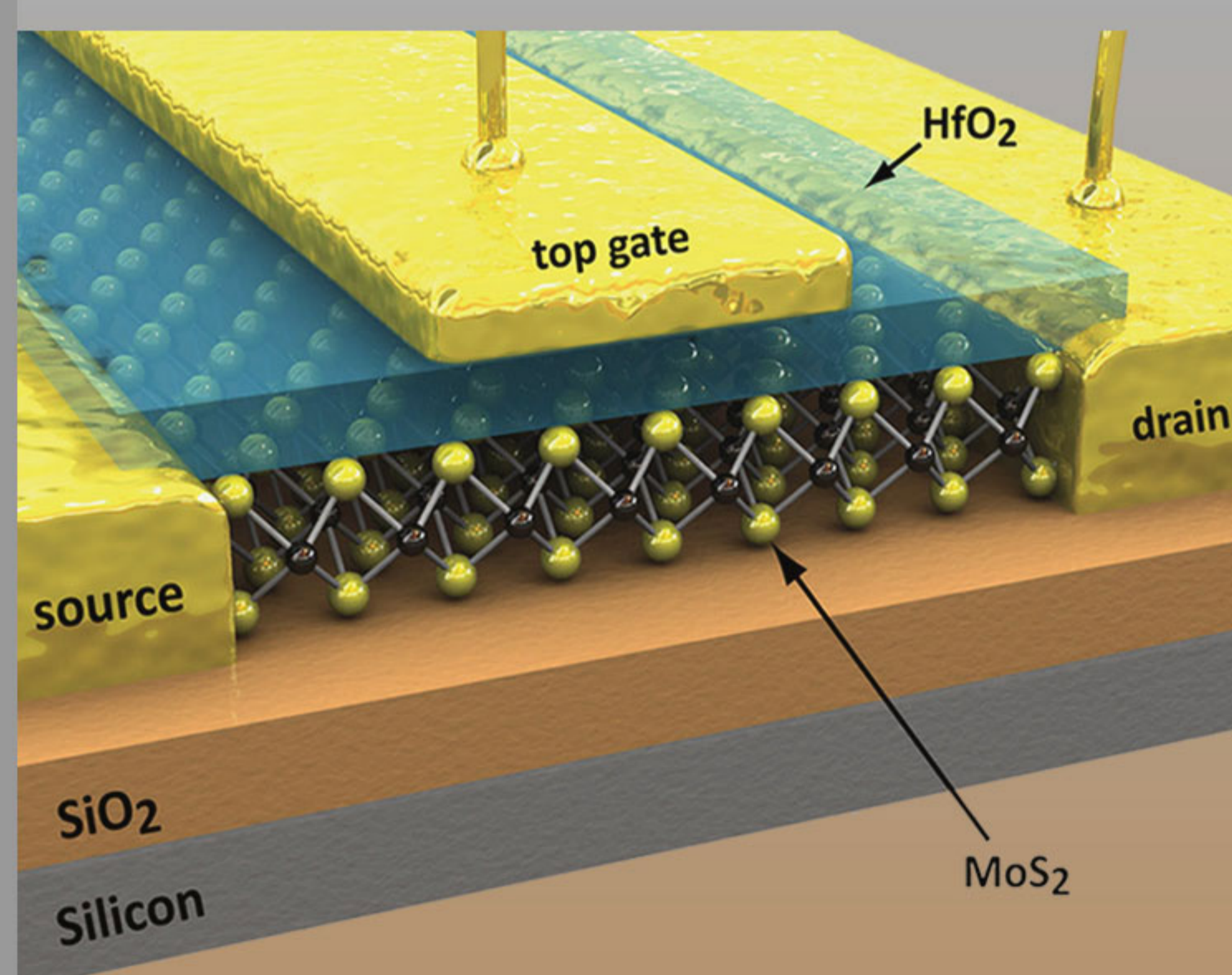
R. Asgari, IPM & COE-INST
F. Fallah, IPM
A.G. Moghaddam, IASBS & IPM
L. Majidi Fardvatan, IPM
N. Naseri, IPM
F. Parhizgar, IPM
H. Rostami, IPM

Title of Lectures:

Introduction on layered Van der Waals materials
Excitonic states in MoS₂
Tight binding model of the band structure of monolayer MoS₂
Andreev reflection in a monolayer MoS₂
Molybdenum sulfide as a new gateway to technology development
RKKY interaction in MoS₂
Optical conductivity and electronic conductance in MoS₂

Organizers:

F. Fallah, IPM
L. Majidi Fardvatan, IPM
F. Parhizgar, IPM
H. Rostami, IPM



Address: Conference Hall, School of Physics (IPM), Next to Kouh-e-Nour Building, Farmanieh Ave., Tehran

More information and online registration form can be found at:

<http://physics.ipm.ac.ir/conferences/mos2/index.jsp>