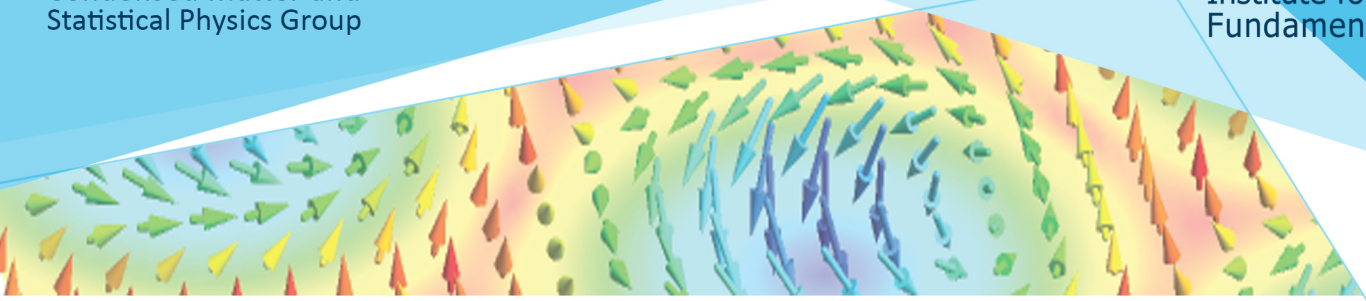
School of
PHYSICS
Condensed Matter and
Statistical Physics Group

IPM
Institute for Research in
Fundamental Sciences



School on Spintronics and Nanomagnetism

13-15 Aban 1394 (November 4-6, 2015)

School of Physics, IPM, Tehran

Spintronics is a new branch of nano-scale physics aiming to control, manipulate, and utilize the spin degree of freedom in metals and semiconductors. It is one of the most promising alternatives for future electronics beside having fundamental interest for condensed matter physicists. This school is intended to provide a possibility for young researchers and PhD students to get familiar with the basic theories, recent experimental and theoretical progresses and future outlook of spintronics and nanomagnetism. The main topics which will be covered during a three-day school include:

- Magnetization dynamics and spin manipulation
- Single spin manipulation in nanostructures
- Spin Hall Effects and topological insulators
- Spintronic devices and technologies
- Quantum magnetism

Lecturers:

G. Bauer, *TU Delft, The Netherlands*

R. Duine, *Utrecht Uni., The Netherlands*

J. König, *DEU, Germany*

A. Langari, *SUT, Iran*

M. Mohseni, *SBU, Iran*

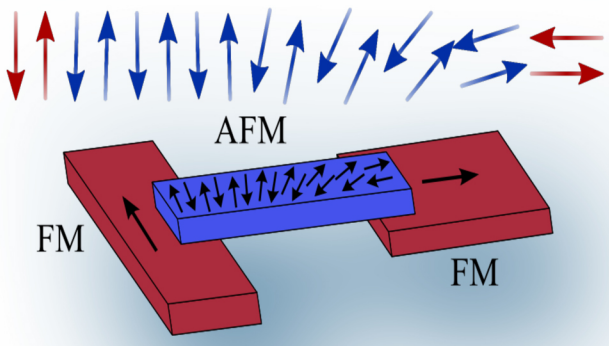
A. Qaiumzadeh, *RU, The Netherlands*

Organizers:

R. Asgari, *IPM, Tehran*

S.A. Jafari, *SUT, Tehran*

A.G. Moghaddam, *IASBS, Zanjan (Chair)*



More information and online registration form can be found at:
http://physics.ipm.ac.ir/conferences/fssn/index.jsp
Venue: Institute for Research in Fundamental Sciences (IPM), next to Kouhe Nour Building, Farmanieh Av.
Email: conf@theory.ipm.ac.ir