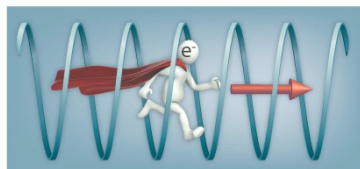


IAP-SEMINAR

ANNOUNCEMENT

- Date:** Monday, 14.12.2015
Time: 13:00 p.m.
Location: Technische Universität Wien, Institut für Angewandte Physik, E134
yellow tower „B“, 5th floor, Sem.R. DB gelb 05 A (room number DB05E11)
1040 Wien, Wiedner Hauptstraße 8-10
- Lecturer:** Ron Naaman
Department of Chemical Physics, Weizmann Institute, Rehovot/Israel
- Subject:** The chiral induced spin selectivity in physics, chemistry and biology
- Abstract:** Spin based properties, applications, and devices are commonly related to magnetic effects and to magnetic materials. However, we found that chiral organic molecules can act as spin filters for photoelectrons transmission, in electron transfer, and in electron transport.
The new effect, termed Chiral Induced Spin Selectivity (CISS), has interesting implications for the production of new types of spintronics devices and on electron transfer in biological systems. The effect was found in bio-molecules and in bio-systems like the photosystem I. It will be shown how the CISS effect may reduce the back scattering in those systems. The basic effect, and its applications and implications, will be presented.



All interested colleagues are welcome to this seminar lecture.

U. Diebold e.h.
(Seminar-Chairperson)

H. Störi e.h.
(LVA-Leiter)