

Mini-Course
on
The Principles of Coherent Control
by
Prof. Moshe Shapiro

University of British Columbia, Canada
The Weizmann Institute, Israel

The lectures will take place

May 14, 14:15-16:00, Room: 1525-323

May 15, 12:15-14:00, Room: 1525-323

Topics to be discussed

1. What determines the outcome of an event – the scattering theory perspective.
2. State preparation in the present as a way of controlling the outcome, what works and what doesn't.
3. Controlled symmetry breaking, the optical creation of DC and AC currents in bulk semiconductors and in Carbon nanotubes. Creation of chirality.
4. Control of molecular dynamics in the strong field domain.
5. Control of light: Electromagnetically Induced Transparency and the Slowing Down of Light.