



IRTG-Seminar

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“Resonant and non-resonant control of rotation: on molecular alignment and enantio-selective control of chiral molecules”

In this talk I present methods to control molecular rotation with electromagnetic radiation. Moderately intense, non-resonant laser pulses provide an efficient means to steer rotational dynamics and induce molecular alignment. I introduce the principles of molecular alignment and present applications ranging from the separation of close chemical species to the control of internal torsion. Resonant excitation of rotational states can also be employed for the control of chiral molecules. I present our recent work on enantio-selective excitation of chiral molecules with the help of microwave spectroscopy.

**Tuesday, July 3, 2018; 6:00 p.m., HSII
Physics high rise, Hermann-Herder-Str. 3**