



SFB/Transregio 21

Prof. Leif Veseth*
(University of Oslo)

Introduction
into molecular physics

Lecture, May 19th – 27th, 2011

Universität Ulm, Institut für Quantenmaterie,
Albert-Einstein-Allee 45 (Uni West), R. 45.2.304

CO.CO.MAT



* Prof. Leif Veseth is guest scientist at the Institute of Quantum Matter
invited by Prof. Dr. Johannes Hecker Denschlag.

Issues

Thursday	May, 19th
17:00 - 18:00	Some considerations around symmetry/group theory
18:00 - 19:00	Rotational symmetry and angular momentum. Rotating molecular frames of reference
Friday	May, 20th
9:00 - 10:00	The Wigner-Eckart theorem with selected applications
Monday	May, 23rd
10:10 - 11:10	Molecular rotational states and interactions
Thursday	May, 26th
11:00 - 12:30	Diatomic molecules: Spin-orbit interaction, hyperfine structure and external fields
Friday	May, 27th
9:00 - 10:00	Diatomic molecules in dipole traps
14:00 - 15:00	Discussion