

QSIT LECTURE

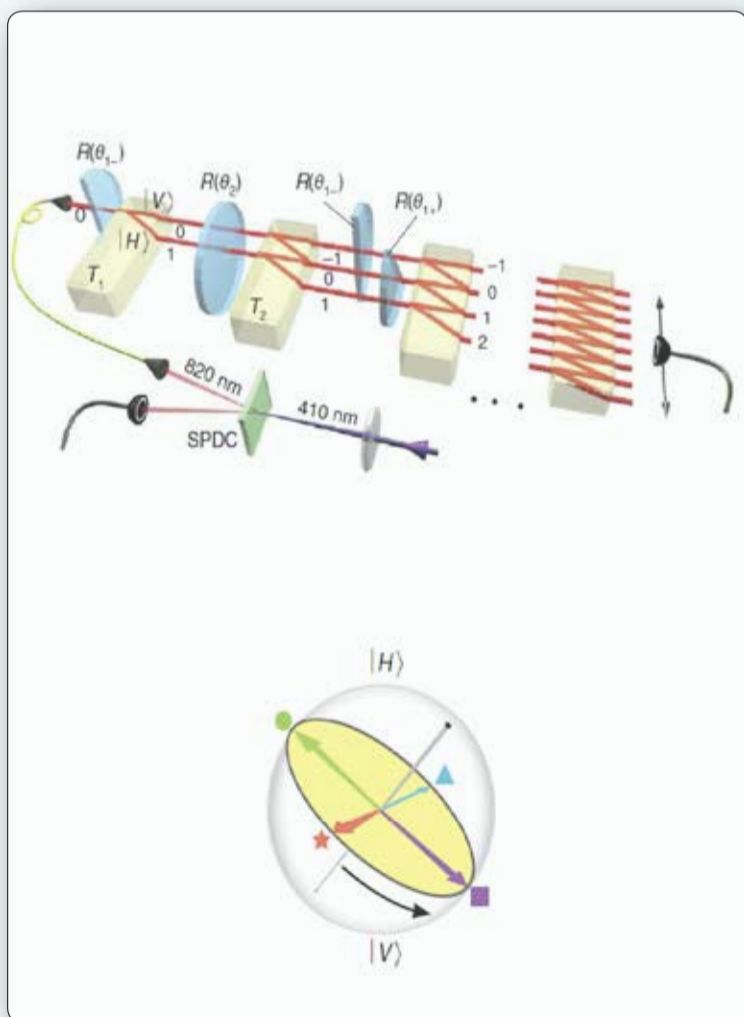
Quantum Science and Technology
National Centre of Competence in Research

Special lecture for master and PhD students

Thursday, May 7, 2015, 10:45 h – 12:30 h, HIL E 9

Eugene Demler, Harvard University & ITS ETH Zurich

Exploring topological states with synthetic matter



These lectures will provide a basic introduction to topological states of matter. We will discuss topological invariants such as Zak phase in 1d systems, Chern number and Z_2 topological invariant in 2d systems. We will consider generalization of topological invariants for periodically driven systems. Possible experimental realizations of topological states with ultracold atoms and photons will be reviewed.

Host: Atac Imamoglu

Tea and Coffee at 10:30 h
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