



Tuesday, July 14th 2015, 2 pm
CFEL, Bldg. 99, Seminar Rooms I, II, III,

ROBERTO MERLIN

DEPARTMENT OF PHYSICS, UNIVERSITY OF MICHIGAN

PHOTON-MATTER INTERACTIONS II: ELECTRONIC EXCITATIONS

The following topics will be covered:

1. Electron-photon interaction.
2. Semiconductors: Interband Transitions, van Hove singularities and indirect gap absorption.
3. Excitons: Frenkel vs. Wannier. Optical selection rules. Effect of Coulomb interaction on interband absorption.
4. Exciton polaritons.

Host: Andrea Cavalleri

