

3. Cold molecules.....2 lectures (1hr 30m each)

Speakers: Prof. B. Deb (IACS)

(a) Theory / Tutorial

Introduction to alkali dimers: structure and spectroscopy
 Homo-nuclear and hetero-nuclear molecules
Molecular states close to the dissociation limit
Photo association of atoms to form
 Homo-nuclear molecules
 Hetero-nuclear molecules
Feshbach resonances / adiabatic crossover
Two and three atom processes
Raman Processes