

Vorlesung: Biomolekulare Physik und Simulationen (SS 15)

Biomolecular Physics and Simulations

Modul B.Phy.5649

Mondays 16:15-17:45 in HS3 (A0.105) or SR1 (A1.101), Physics Faculty

Date	Topic	Type/Room
2015-04-13	Short introduction to MD simulation, molecular machines, Markov theory (HG)	L = Lecture in lecture hall 3
2015-04-20	Free energy calculations: Molecular recognition (HG)	Lecture
2015-04-27	Short introduction to MD simulation, molecular machines (BdG)	P= Practical training in SR1 (A1.101)
2015-05-04	Free energy calculations: Molecular recognition (BdG)	Practical
2015-05-11	Non-equilibrium thermodynamics: Molecular driving forces (HG)	Lecture
2015-05-18	Quantum mechanical methods: Enzyme catalysis (JH)	Lecture
2015-06-01	Quantum mechanical methods: Enzyme catalysis (JH)	Practical
2015-06-08	Hartree-Fock, density functional theory (JH)	Lecture
2015-06-15	Non-equilibrium thermodynamics: Molecular driving forces (BdG)	Practical
2015-06-22	Hartree-Fock, density functional theory (JH)	Practical
2015-06-29	Rate theory: Biomolecular efficiency (JH)	Lecture
2015-07-06	Rate theory: Biomolecular efficiency (BdG)	Practical

Lecture period 13 April-17 July 2015

Whit-Monday: 25 May 2015

Examinations 28.-31.7.2015