

Vorlesung: Biomolekulare Physik und Simulationen (SS 16)

Lecture: Biomolecular Physics and Simulations

Lecturer: Helmut Grubmüller (HG), Bert de Groot (BdG) and Jochen Hub (JH)

Modul B.Phy.5649

Mondays **16:00-17:30** in HS3 (A0.105) or SR1 (A1.101), Physics Faculty

Date	Topic	Type/Room
2016-04-11	Short introduction to MD simulation, molecular machines, Markov theory (HG)	L = Lecture in lecture hall 3
2016-04-18	Short introduction to MD simulation, molecular machines (JH)	P= Practical training in SR1 (A1.101)
2016-04-25	Quantum mechanical methods: Enzyme catalysis (JH)	Lecture
2016-05-02	Quantum mechanical methods: Enzyme catalysis (JH)	Practical
2016-05-09	Hartree-Fock, density functional theory (JH)	Lecture
2016-05-23	Hartree-Fock, density functional theory (JH)	Practical
2016-05-30	Free energy calculations: Molecular recognition (HG)	Lecture
2016-06-06	Free energy calculations: Molecular recognition (BdG)	Practical
2016-06-13	Non-equilibrium thermodynamics: Molecular driving forces (HG)	Lecture
2016-06-20	Non-equilibrium thermodynamics: Molecular driving forces (BdG)	Practical
2016-06-27	Rate theory: Biomolecular efficiency (JH)	Lecture
2016-07-04	Rate theory: Biomolecular efficiency (BdG)	Practical
2016-06-11	zur Zeit frei	

Lecture period 11 April-15 July 2016

Whit-Monday: 16 May 2016

Examination block: July 25 to August 5, 2016