



HiPOLIN 2014 - ERASMUS INTENSIVE PROGRAMME
"An Introduction to High Power Light Matter Interactions"

	Monday 30 June	Tuesday 1 July	Wednesday 2 July	Thursday 3 July	Friday 4 July
09:00 - 11:00	Welcome HiPER Infrastructure Michael Tatarakis	Toward Planetary interiors physics using High Energy lasers Michel Koenig	Principles of Fast electron transport in laser matter interactions Luca Volpe	The principles of Inertial Confinement Fusion I Stefano Atzeni	Nonlinear Electrostatic Structures and Shocks in Plasmas: from Observations to Modelling Ioannis Kourakis
11:15 - 13:15	The Basics of Laser-Plasma Interactions Michael Tatarakis	Indirect drive ignition experiments on NIF & future status of LMJ/PETAL Alexis Casner	High Power Laser Technology – Part II Mauricio Rico	Laser fusion reactor technologies Antonio Rivera	Finite elements methods for the simulation of the interaction of laser pulses with matter Vasilis Dimitriou
--Break--					
14:30 - 16:30	High Power Laser Technology – Part I Mauricio Rico	Principles of Shock Ignition Dimitri Batani	The Basics of Ultrafast Laser- Matter interactions Nektarios Papadogiannis	Irradiation effects on materials in the high electronic excitation regime Ovidio Peña	The principles of Inertial Confinement Fusion II Stefano Atzeni
16:30 - 18:30	The HiPER project Chris Edwards	Self-Learning Session	Self-Learning Session	Self-Learning Session	Poster Session & Short Presentations

	Monday 7 July	Tuesday 8 July	Wednesday 9 July	Thursday 10 July	Friday 11 July
09:00 - 11:00	Self-Learning Session	Numerical simulation methods for laser target interactions Jiri Limpouch	The role of electron energy transport in high power laser matter interactions Vladimir Tichonchuk	History & Mythology of Crete Gareth Owens	Exams
11:15 - 13:15	Ion acceleration by intense laser pulses Jiri Limpouch	High power lasers Brendan Dromey	Laser plasma sources of X-rays and extreme ultraviolet (EUV) for applications Henryk Fiedorowicz	Laser based Atomic & Molecular dynamics Kaziannis Spyros	Exams
--Break--					
14:30 - 16:30	Principles of Indirect drive ICF Physics John Pasley	Plasma-based Short-wavelength Lasers and related Applications Davide Bleiner	The use of Z-pinch for inertial confinement fusion and for dense plasma studies Jeremy Chittenden	Target Area Radiation Shielding Simulations for High Intensity Laser Matter Interactions Eugene Clark	Exams
16:30 - 18:30	Self-Learning Session	Poster Session & Short Presentations	Self-Learning Session	Self-Learning Session	Farewell Dinner

