



Christmas High Power Laser Science Community Meeting 17 - 19 December 2012

Poster List

Sponsored by Plasma Physics and Controlled Fusion, Journal of Plasma Physics and



Tuesday 18 December 2012: Session 1 09:00-10:30

1	Graham	Arthur	Fabrication of Mass Produced Microdot Arrays for use as Micro-Targets on High-Repetition Rate Experiments
2	Ian	Bush	ODIN - A 2D ALE Code with Diffusive Energy Transport
3	David	Carroll	Electron transport within glass targets
4	Christopher	Harvey	Pair Production in Optimally Focussed Laser Pulses
5	Steve	Hughes	Improving Integrated Hybrid Codes for Short Pulse Modelling
6	Andrey	Lyachev	Laser-induced damage threshold test of optical components for high peak power OPCPA systems
7	Alex	Robinson	Exploiting Resistive Guiding for Fast Ignition
8	Nathan	Sircombe	Modelling hot electron generation and transport in short pulse target heating experiments
9	Christopher	Spindloe	High Volume Production of Thin Foil Laser Targets
10	Hugo	van der Hart	Multielectron dynamics and harmonic generation via TDRM theory
11	Gregory	Vieux	Laser pulse amplification through Raman back-scattering in plasma

Tuesday 18 December 2012: Session 2 16:00-18:00

1	Tom	Blackburn	QED processes in laser-electron beam experiments
2	Andrew	Brown	Harmonic Generation in Time Dependent R-matrix theory
3	Joseph	Cross	1D Simulations for the Orion POLAR experiment
4	Robert	Crowston	Coherence imaging and its applications to lab astro plasmas
5	Rachel	Dance	Spectroscopic study of fast electron beam parameters in dense plasmas
6	Christopher	Davie	Symmetry of spherically converging hydrodynamic shocks through reflection, relating to the Shock Ignition IFE scheme
7	Sam	Dorkings	Determining Laser generated Neutron Spectra by activation
8	Marco	Esposito	Use of Very High Energy Electrons for Cancer Treatment - potential applications and perspective studies
9	Paul	Farrell	The effect of radiation on cancerous multicellular spheroids
10	Thomas	Fox	Non-local heat flux following heating by fast electron currents
11	Bruno	Gonzalez Izquierdo	Polarimetry analysis of resistive magnetic fields in intense laser-solid interactions
12	Peter	Grant	Towards high-energy gamma-rays
13	Alexander	Green	Neutron Emission from CD Targets with Vulcan TAP
14	Deborah	Gwynne	High Resolution Thomson Parabola Spectrometer
15	David	Haddock	Recent Developments in Target Fabrication at the CLF
16	Fiona	Hanton	Light Sail Acceleration in the Hybrid Phase
17	Brendan	Kettle	X-ray Scattering from Warm Dense Iron
18	Hazel	Lowe	X-ray emission from gas cluster targets
19	David	MacLellan	Resistivity Evolution for Controlled Fast Electron Transport
20	David	McGonegle	The MEC beamline at LCLS
21	Graeme	Mckendrick	Laser Plasma Density Interferometry as a diagnostic tool for laser driven accelerators
22	Jena	Meinecke	Magnetic Field Amplification of Laser Produced Shockwaves
23	Kealan	Naughton	Proton probing of laser plasma interactions
24	Oliver	Pike	Relativistic corrections to binary collision rates and transport coefficients in inertial confinement fusion
25	Kristjan	Poder	Effect of focal spot optimisation with an adaptive optic system on laser generated electron beams
26	Merfat	Raddadi	Propagation in an intense background
27	Martin	Ramsay	In pursuit of tractable solid density PIC simulations
28	David	Reboredo Gil	Gafchromic film calibration for radiotherapy studies
29	Graeme	Scott	Multi-pulse enhanced laser ion acceleration using plasma half cavity targets
30	Nicholas	Stuart	Optimisation of the Picosecond OPCPA Stages in the Cerberus Laser System
31	Matthew	Suggit	White-light Laue diffraction at Janus
32	Michael	Taylor	'Coherent Synchrotron emission from dense nanobunches in relativistic laser plasmas'
33	Thomas	White	Time-resolved femtosecond x-ray diffraction from an ultra-short tabletop laser
34	Jonathan	Wood	Simulations of density step electron injection in laser wakefield accelerators
35	Roman	Yurchak	Accretion columns of magnetic cataclysmic variables in laboratory astrophysics