

Christmas High Power Laser Science Community Meeting 14 - 16 December 2011 **Poster List**

Sponsored by "Plasma Physics and Controlled Fusion" and Scitech



Thursday 15 December 2011: Session 1 09:00-10:30

1	James	Green	High power laser-driven Terahertz source research at the Central Laser Facility
2	Satyabrata	Kar	Radiation pressure acceleration employing Vulcan Petawatt laser
	Margaret	Notley	Target Area West Facility Characterisation
	Jonathan	Phillips	Two beam spatial and temporal coherent phasing with a sub picosecond laser
5	Martin	Ramsay	Characterisation of laser accelerated protons transisting planar foil targets
6	Alex	Robinson	Producing High Energy Ions with Hole-Boring RPA
7	Sam	Serra	New advances at the CLF Target Fabrication
8	Nathan	Sircombe	Modelling hot electron generation in short pulse target heating experiments
9	Marco	Galimberti	10PW Project
10	Damon	Swatton	A relativistic model of electron runaway: the role of e-e and i-e collsions in in the strong field limit
11	Kristjan	Poder	Development of a single shot third order autocorrelator
12	Katalin	Mecseki	Development of an optically synchronised OPCPA laser system delivering sub 10 fs - 10 mJ pulses at 1 kHz , Transient high energy density
12			plasmas driven by few cycle laser pulses,
13	Bernhard	Ersfeld	Harmonically Resonant Betatron Oscillations in a Laser Wakefield in Plasma
14	Jonathan	Alston	Improvements to the Astra Gemini Target Area
15	Stephen	Hughes	Integrated Modelling of Short Pulse Lasers Interactions with Simple Targets
16	Hazel	Lowe	Novel Short Pulse X-ray Backlighter Sources for the Orion Laser
17	Damien	Bigourd	Parametric amplification based Cerberus front end for contrast enhancement
18	Will	Bryan	Time-resolved multi-electron processes in recollision-free atomic tunnel ionization
19	Luca	Poletto	The ARTEMIS monochromator for extreme-ultraviolet ultrashort pulses: design and characterization
20	Daniel	Fletcher	Simple Collision Operators for Direct Vlasov Solvers
21	Matthew	Streeter	Temporal characterisation of pulse compression in laser driven wakefields. Temporal dynamics of laser-plasma interactions
22	Mohammed	Shahzad	The EUV and x-ray opacity of plasmas
23	Trevor	Winstone	Improvements and characterisation of the Petawatt Facility
24	Hugo	van der Hart	Harmonic generation in time-dependent R-matrix theory

Thursday 15 December 2011: Session 2 16:00-18:30

2 Lc	.ouise		
		Belshaw	Femtosecond Laser Induced Ionisation and Fragmentation of Biomolecules
3 Ja	ason	Cole	Laser Wakefield Acceleration at High Repetition Rates
4 0:	Ozgur	Culfa	Measurement of hot electron temperature and direction in high-contrast petawatt interactions
5 M	/lartin	Duffy	KEIRA-CHIMERA: A new method in high resolution mass spectrometry
6 Ka	Caterina	Falk	Deuterium under Extreme Conditions of Planetary Interiors
7 Ja	avier	Fernandez Tobias	Contrast improvement in Astra Gemini Laser
8 Th	homas	Fox	Non-diffusive electron transport modelling for shock ignition of ICF targets
9 G	George	Hicks	Simulations of near-critical density targets illuminated with Vulcan Petawatt
10 Ye	'evgen	Kravets	Ray tracing methods applied to 3-D laser pulse propagation in time and space varying plasma media
11 Da	David	Lloyd	Transverse Spatial Properties of High Harmonic Generation
12 Da	David	MacLellan	Lattice structure effects on fast electron transport in laser-irradiated solids
13 Je	ena	Meinecke	Electron Density and Temperature Measurements of Laser-Produced Plasmas from Electron-feature Thomson-Scattering
14 M	Martin	Mitchell	Applications in Next Generation Accelerators
15 M	Лerfat	Raddadi	Volkov Quantum Field Theory
16 Da	David	Reboredo Gil	Dosimetry and X-ray calibration for radiotherapy studies
17 Gi	Graeme	Scott	A novel target geometry for multi pulse enhanced ion acceleration
18 Ar	Anna	Subiel	ALPHA-X Laser-Plasma Wakefield Accelerator
19 Sv	vetoslav	Bajlekov	Reconstruction of Longitudinal Electron Bunch Profile by Phase Retrieval of Coherent Transition Radiation Spectra
20 Th	homas	White	Electron-lon Temperature Equilibration in Warm Dense Matter
21 Lu	ucy	Wilson	Transmission measurements of short pulse laser heated iron foils using an x-ray laser
22 G	Gabriele	Mogni	Isentropic compression of condensed matter: simulation and experiment
23 O	Oliver	Ettlinger	Characterisation of Organic Scintillators for Dectection of Laser Accelerated Ion Beams
24 M	Лark	Yeung	Coherent Control of High Harmonic Generation from Relativistically Oscillating Plasmas Via Elliptically Polarised Lase
25 Da			Coherent Thomson Scattering from Relativistic Electron Mirrors, Max Planck Society, Relativistic electron dynamics in laser nano-foil
26 Ro	Ross	,	Front surface physics in intense laser-foil interactions
27 Ar	Indrew		Kinetic Modelling of Ablation in Inertial Confinement Fusion, Kinetic modelling of laser ablation in inertial confinement fusior
28 Si	iddharth	Patankar	Optical & Thomson Probing of Plasma Jets
29 Ke			Quasi-phase-matching and quantum-path selection using counter-propagating pulse trains
30 Be	Benjamin	Mossbarger	Ultrafast Laser Irradiation of Nickel Nanowire Targets
31 Th	homas	Kierspel	Attosecond Beamline Development at Artemis Facility
32 Le	ewis	Liu	Method for Quasi-Phase Matching of High Harmonic Sources
33 At	Andrew		Kinetic Modelling of Ablation in Inertial Confinement Fusion
34 Ha	laydn	Powell	X-ray measurements of laser-plasma interactions, X-ray probing measurements of laser-plasma interactions, Ultraintense laser-driven ion acceleration
35 Cł	Chris		Development of an Optical Levitation Trap for Precise Spatial Control of Microdroplet Targets in Vacuum
36 W	Volf	Rittershofer	Laser Plasma Acceleration in tapering plasma channels
37 To	om	Goffrey	An r-z Arbitrary Lagrangian Eulerian Code for MHD Problems
38 M		Skramic	1-D particle-in-cell simulations of electron-beam driven wakefields in plasma
38 Da	Daniel	Johnson	Techniques In Determining Half-life From Spectra