

Atomic Processes in Plasmas

Tuesday, 16 May 2023

High Energy Density Plasmas and Powerful Light Sources - Board Room A (10:00 - 10:50)

time	[id] title	presenter
10:00	[22] Modelling the evolution of X-ray free-electron-laser irradiated solids towards warm-dense-matter state	ZIAJA-MOTYKA, Beata
10:30	[117] Investigation of opacity effects on optically thick lines for diagnosing plasma conditions in buried layer targets for x-ray opacity studies	MACDONALD, Mike

High Energy Density Plasmas and Powerful Light Sources - Board Room A (11:20 - 12:40)

time	[id] title	presenter
11:20	[25] Laser-driven shock compression of Fe up to 250 GPa probed by X-ray Absorption Spectroscopy	BALUGANI, Sofia
11:40	[90] Measurement of line absorption at Gbar pressures	BISHEL, David
12:00	[52] Using K-shell S line ratios to measure the plasma temperature in a transient FeS plasma	Dr NILSEN, Joseph
12:20	[104] Numerical investigation of bremsstrahlung in laser-plasma interaction with double-layer targets	Ms GALBIATI, Marta

Thursday, 18 May 2023

High Energy Density Plasmas and Powerful Light Sources - Board Room A (10:00 - 10:50)

time	[id] title	presenter
10:00	[78] Non-equilibrium Dynamics during Warm Dense Matter Formation	CHO, Byoung-ick
10:30	[92] Improving warm dense matter models with accurate first-principles benchmarks	KONONOV, Alina

High Energy Density Plasmas and Powerful Light Sources - Board Room A (11:20 - 12:40)

time	[id] title	presenter
11:20	[35] A self-consistent model of ionization potential depression of ions in hot and dense plasmas with local field correction	YUAN, Jianmin
11:50	[128] Probing Extreme Atomic Physics in Super-dense Plasmas	HU, Suxing
12:20	[109] Raman shifts and plasma screening in Warm Dense Copper	ŠMÍD, Michal

High Energy Density Plasmas and Powerful Light Sources - Board Room A (14:00 - 15:30)

time	[id] title	presenter
14:00	[4] Ionization Potential Depression and dense plasma collisional properties.	CALISTI, Annette
14:30	[6] Stark spectroscopy in the presence of Langmuir waves in non-equilibrium plasma	Dr HANNACHI, Ibtissem Prof. STAMM, Roland
14:50	[40] Atomic Population Kinetics for Particle in Cell	Mr MARRÉ, Brian Edward
15:10	[61] Expanded Application of the Linear Response Method	SCOTT, Howard

Friday, 19 May 2023

High Energy Density Plasmas and Powerful Light Sources - Board Room A (11:40 - 12:50)

time	[id] title	presenter
11:40	[127] Non-thermal evolution of dense plasmas driven by intense x-ray fields	VINKO, Sam
12:10	[89] A variational atomic model of plasma accounting for ion radial correlations and electronic structure of ions (VAMPIRES)	Dr PIRON, Robin
12:30	[82] Integrated reflectivity inferred from crystal response measurement for several NIF X-ray spectrometers	DOZIERES, Maylis

High Energy Density Plasmas and Powerful Light Sources - Board Room A (14:00 - 15:20)

time	[id] title	presenter
14:00	[36] Energy loss of low energy ions in plasmas @ HIRFL	CHENG, Rui
14:20	[95] Progress in modeling of krypton He-beta lineshape for diagnostics of high-energy-density plasmas	STAMBULCHIK, Evgeny
14:40	[99] Two-photon processes and their minor contribution to the Sandia Z-pinch Iron opacity experiments	KRUSE, Michael
15:00	[72] Non-LTE modeling of XFEL produced plasmas	LE, Hai