

Workshop on Nuclear Physics in Hot Dense Plasmas

Saturday March 12, 2010

6:00 PM	Reception with Snacks and Drinks	Notre Dame London Centre
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Sunday March 13, 2010

8:45 AM	Welcome	Michael Wiescher	University of Notre Dame
1st Session: status of NIF			
9:00 AM	NIF as a laboratory for nuclear physics	Charlie Cerjan	Lawrence Livermore Laboratory
9:30 AM	Implosions on the NIF - Creating unique states of matter	Joe Kilkenny	Lawrence Livermore Laboratory
10:00 AM	Diagnostic Summary & First results - Neutrons	Jac Caggiano	Lawrence Livermore Laboratory
10:15 AM	Diagnostic Summary & First results - Gammas	Wolfgang Stoeffl	Lawrence Livermore Laboratory

10:30 AM coffee break

11:00 AM	Nuclear-Plasma experiments @ ICF facilities	Andrea Kritcher	Lawrence Berkely Laboratory
11:30 AM	(n,x) reaction measurements at NIF	Lee Bernstein	Lawrence Livermore Laboratory
12:00 AM	Nuclear astrophysics experiments at NIF	Carl Brune	Ohio University

12:30 PM lunch break

2nd Session: alternative techniques			
2:00 PM	AMS of Activated Noble Gases at NIF	Michael Paul	Hebrew University
2:30 PM	Activation diagnostics	Darren Bleuel	Lawrence Livermore Laboratory
3:00 PM	Solid debris collection for radiation chemistry	Julie Gostic	Lawrence Livermore Laboratory

3:30 PM coffee break

3:45 PM Discussion Contributions

3rd Session: international efforts			
4:30 PM	Laser driven Nuclear and Particle Science	Ken Ledingham	Strathclyde University, Glasgow, UK
5:00 PM	Recent theoretical developments in Nuclear Excitation in Plasmas	Gilbert Gosselin	CEA, Paris, France
5:30 PM	Atomic configuration effects on NEET calculations for Th 169	Pascal Morel	CEA, Paris, France
6:00 PM	NEEC realistic experimental scenario at a storage ring	Christophor Kozhuharov	GSI, Darmstadt, Germany
6:30 PM	Screening affects in nuclear reactions and	Frank Strieder	RU Bochum, Germany
7:00 PM	Highly charged isomers	Phil Walker	University of Surrey, UK

Monday March 14, 2010

4th Session: nuclear astrophysics			
8:30 AM	s-process physics and techniques	Franz Kaeppler	Forschungszentrum Karlsruhe, Germany
9:15 AM	Status and outlook of neutron induced reaction measurements at the n_TOF facility at CERN	Frank Gunsing	CEA, Paris, France
10:15 AM	Coffee Break		
10:45 AM	Measuring Neutron Capture : Opening all the Drawers in the Tool Box	Aaron Couture	Los Alamos Laboratory
11:15 AM	Current experimental aspects of the s-process research	Rene Reifarth	University of Frankfurt, GSI
11:45 AM	Nucleosynthesis in massive stars, the role of electron screening	Rob Hoffmann	Lawrence Livermore Laboratory

12:15 PM lunch break

5th Session: astrophysics measurements at NIF			
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2:00 PM	Measurement of thermonuclear reactions with charged particles	Dennis McNabb	Lawrence Livermore Laboratory
2:30 PM	Test of stellar hydrodynamics predictions	Tomasz Plewa	University of Florida

3:00 PM Coffee Break

6th Session: nuclear theory intersection			
3:30 PM	Nuclear-plasma physics from reaction rates	Anna Hayes	Los Alamos Laboratory
4:00 PM	Statistical gamma-ray experiments in support of GRH cross section measurements at NIF	Sunniva Siem	University of Oslo, Norway
4:30 PM	Discussion Contributions		