

# US-Japan Workshop on Inertial Fusion Energy

September 24, 2023

Conference room C, Hilton Denver Inverness, Denver, Colorado, USA

## Program

10:00-10:10	Opening remarks	N. Iwata (Institute of Laser Engineering, Osaka Univ.)
<b>Session 1</b>	Chair: S. Fujioka (Institute of Laser Engineering, Osaka Univ.)	
10:10-10:35	Ryunosuke Takizawa (Institute of Laser Engineering, Osaka Univ.)	<i>Progress of fast-ignition studies with high-contrast heating laser and solid ball fuel</i>
10:35-11:00	Sophia Malko (Princeton Plasma Physics Lab.) (online)	<i>Proton transport in warm dense matter</i>
11:00-11:25	Tomoyuki Johzaki (Hiroshima Univ.)	<i>Ignition and burning characteristics in fast ignition-based laser fusion</i>
11:25-11:35	Coffee break	
<b>Session 2</b>	Chair: F. Albert (Lawrence Livermore National Lab.)	
11:35-12:00	Drew Higginson (Lawrence Livermore National Lab.)	<i>Current fast ignition research and goals at Lawrence Livermore National Laboratory</i>
12:00-12:25	Yasuhiko Sentoku (Institute of Laser Engineering, Osaka Univ.)	<i>Fast ignition theory and simulation</i>
12:25-12:50	Rémi Lehe (Lawrence Berkeley National Lab.)	<i>LBNL capabilities relevant to IFE research</i>
12:50-14:10	Lunch	
<b>Session 3</b>	Chair: A. Sunahara (Purdue Univ.)	
14:10-14:35	Derek Mariscal (Lawrence Livermore National Lab.)	<i>High Repetition rate diagnostics and analysis</i>
14:35-15:00	Raspberry Simpson (Lawrence Livermore National Lab.)	<i>ARC-driven proton in the multi-ps regime</i>
15:00-15:25	Natsumi Iwata (Institute of Laser Engineering, Osaka Univ.)	<i>kJ petawatt laser-driven ion acceleration with high energy conversion</i>
15:25-15:35	Coffee break	
<b>Session 4</b>	Chair: K. Tanaka (Institute of Laser Engineering, Osaka Univ.)	
15:35-16:00	Jumpei Ogino (Institute of Laser Engineering, Osaka Univ.) (online)	<i>Development of high repetition rate lasers</i>
16:00-16:25	Hui Chen (Lawrence Livermore National Lab.)	<i>Overview of HEDS diagnostics</i>
16:25-16:50	Kazuki Matsuo (EX-Fusion)	<i>Company Activities for IFE</i>
16:50-17:15	Pravesh Patel (Focused Energy)	<i>Focused Energy and Proton Fast ignition</i>
17:15-17:30	Discussion and Summary	F. Albert (Lawrence Livermore National Lab.)