The 1st US-Japan Workshop on Inertial Fusion Energy

September 24, 2023

Conference room C, Hilton Denver Inverness

Program

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