

## Charged Particle Radiography Workshop Agenda

EST	Monday 1/25/21	Tuesday 1/26/21	Wednesday 1/27/21	Thursday 1/28/21
9:45 AM	Introductions	Virtual Coffee	Virtual Coffee	Virtual Coffee
	<i>Chair: D. Schaeffer (Princeton)</i>	<i>Chair: A. Bott (Princeton)</i>	<i>Chair: M. Borghesi (QUB)</i>	<i>Chair: D. Schaeffer (Princeton)</i>
10:00 AM	Review: Radiography with TNSA proton beams <b>M. Borghesi (QUB)</b>	Review: Fusion-based charged-particle backlighters for radiography and stopping power measurements of high-energy-density plasmas <b>G. Sutcliffe (MIT)</b>	Review: Particle tracing simulations as a tool to reconstruct electromagnetic field distributions in plasmas <b>L. Romagnani (LULI)</b>	LWFA based relativistic femto-second electron probe for wakefield acceleration and beyond <b>C. Zhang (UCLA)</b>
10:15 AM				Proton radiography for time-resolved density measurements <b>K. Prestridge (LANL)</b>
10:30 AM				
10:45 AM				
10:55-11:00 AM	Break	Break	Break	Break
11:00 AM	Ultrafast proton radiography of laboratory astrophysics phenomena: reconnection, jet, and instability <b>L. Gao (PPPL)</b>	Magnetic field reconstruction in 1D geometry using proton radiography <b>G. Fiksel (U. Mich)</b>	Review: Reconstructing electromagnetic fields in plasmas by direct analysis of proton radiographs <b>A. Bott (Princeton)</b>	Progress towards fast read-out and rep-rated proton imaging <b>M. Manuel (GA)</b>
11:15 AM				Laser pulse duration effects on a proton source for charged-particle radiography <b>P. Campbell (U.Mich)</b>
11:30 AM	Accounting for the initial proton fluence distribution in the analysis of proton radiographs <b>C. Palmer (QUB)</b>	Monte Carlo simulations for the proton radiography in high-energy-density plasma experiments <b>Y. Lu (U. Rochester)</b>		
11:45 AM				
12:00 PM	Break	Break	Break	Break
12:15 PM	Break	Break	Break	Break
	<i>Chair: L. Willingale (U. Michigan)</i>	<i>Chair: H.-S. Park (LLNL)</i>	<i>Chair: W. Fox (PPPL)</i>	<i>Chair: K. Flippo (LANL)</i>
12:30 PM	Experimental observation of filamentation instabilities and reconnection in HED plasma using proton-radiography <b>S. Bolanos (UCSD)</b>	Field measurements from radiography reconstructions in OMEGA hohlraum experiments <b>J. Pearcy (MIT)</b>	Probing strong Electric and Magnetic Fields with Axial Proton Radiography on Laser-Driven Coils <b>J. Peebles (LLE)</b>	Proton radiography of ultrafast phenomena <b>S. Kar (QUB)</b>
12:45 PM				
1:00 PM	Observations of a semi-collisional reconnection geometry along multiple probing axes <b>E. Tubman (LLNL)</b>	Analyzing proton radiographs with non-uniform initial magnetic fields <b>S. Malko (CLPU/PPPL)</b>	Uncovering field structure of complex systems using proton images in the linear regime <b>J. Levesque (LANL)</b>	Magnetic field and plasma diagnostic for turbulent plasmas on laser facilities <b>G. Gregori (Oxford)</b>
1:15 PM				
1:30 PM	Break	Break	Break	Break
1:45 PM	CRACC and SEPAGE : LMJ-PETAL diagnostics for proton radiography and spectroscopy - <b>I. Lantuéjoul (CEA)</b>	All-optical structuring of laser-driven proton beam profiles - <b>L. Obst-Huebl (LBNL)</b>	Moderated discussion on numerical techniques <b>W. Fox (PPPL)</b>	Moderated discussion on frontier topics <b>K. Flippo (LANL)</b>
2:00 PM	Self-generated magnetic and electric fields at a shock front in low density gases by dual-angle proton radiography - <b>Y. Ping (LLNL)</b>	Proton radiography of Biermann-battery magnetic fields in laser-driven ring targets on the NIF - <b>B. Pollock (LLNL)</b>		
2:15 PM	Demonstrations of ARC Proton Radiography and Paths Forward - <b>D. Mariscal (LLNL)</b>			
2:30 PM	Virtual Coffee	Virtual Coffee		
2:45 PM				
3:00 PM				
3:15 PM			Virtual Coffee	Closing Remarks