

Overview



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Introduction



Welcome to the Frontiers and Careers 2022 workshop!

FRONTIERS AND CAREERS 2022 provides a platform to

- explore career prospects in academia and industry
- present and discuss your research
- network and develop professional connections

Sponsors



FRONTIERS AND CAREERS 2022 is financially supported by

- George Washington University, Department of Physics
- ► MIT Laboratory for Nuclear Science
- University of Bonn, TRA Matter
- University of Mainz, Helmholtz-Institute Mainz
- Jefferson Lab Deputy Director for Science

We acknowledge travel support from the Junior Scientist Travel Fund.







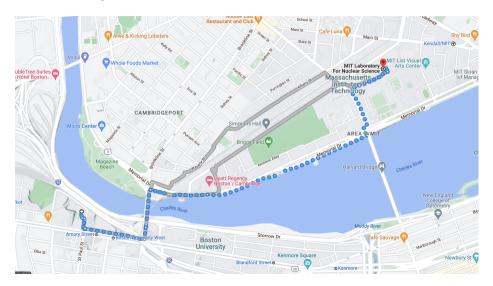






Workshop Location - From BU to MIT





Workshop Location - MIT campus





Workshop Location - Building 26 on the MIT campus



MIT, Building 26



Use your Tim ticket to enter the building Go to the Kolker room (4th floor)

MIT, Building 26, Entrance





Schedule Friday, 5th August 2022



09:00	Breakfast	
	26-414, MIT Laboratory for Nuclear Science	09:00 - 09:45
	Welcome 26-414, MIT Laboratory for Nuclear Science	Farah Atzal et al 09:45 - 10:00
10:00	Pedagogical talk- Presenting data	Lawrence Weinstein
	26-414, MIT Laboratory for Nuclear Science	10:00 - 10:30
	Pedagogical talk- How to write Grant proposals?	Evangeline Downie
	26-414, MIT Laboratory for Nuclear Science	10:30 - 11:00
11:00	Coffee Break	
	26-414, MIT Laboratory for Nuclear Science	11:00 - 11:30
	Academic career in the US	BN Briscoe
	26-414, MIT Laboratory for Nuclear Science	11:30 - 12:00
12:00	Academic career in the EU	Reinhard Beck
	26-414, MIT Laboratory for Nuclear Science	12:00 - 12:30
	Lunch	
13:00		
	26-414, MIT Laboratory for Nuclear Science	12:30 - 13:30

	Career perspectives in a Lab	Dr Douglas Higinbotham
	26-414, MIT Laboratory for Nuclear Science	13:30 - 14:00
14:00	Career perspectives in the Industry	Kalyan Aliada
	26-414, MIT Laboratory for Nuclear Science	14:00 - 14:30
	Panel discussion	
	26-414, MIT Laboratory for Nuclear Science	14:30 - 15:00
15:00	CV session I	
	26-414, MIT Laboratory for Nuclear Science	15:00 - 15:30
	Coffee Break	
	26-414, MIT Laboratory for Naclear Science	15:30 - 16:00
16:00	CV session II	
	26-414, MIT Laboratory for Nuclear Science	16:00 - 16:20
	Deuteron Charge Radius Experiment (DRad) at Jefferson Lab	Jingyi Zhou
	26-414, MIT Laboratory for Muclear Science	16:20 - 16:40
	Two photon exchange at Jefferson Lab	Tyter Kutz
	26-414, MIT Laboratory for Nuclear Science	16:40 - 17:00
17:00	Soft-photon radiative corrections to the e^- p→e^-p I^- I^+ process	Alklas Kell
	26-414, MIT Laboratory for Huclear Science	17:00 - 17:20
	Experimental Inputs to the Hadronic Light-by-Light Contribution to the Anomalous Magnetic Mo Max Leitmann	ment of the Muon from
	Small Angle Initial State Radiation Analysis of the Pion Form Factor at BESIII	Ms Yasemin Schelhaus
	26-414, MIT Laboratory for Nuclear Science	17:40 - 18:00
10.00		

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Schedule

Saturday, 6th August 2022



08:00		
	Breakfast	
	26-414, MIT Laboratory for Nuclear Science	08:30 - 09:00
09:00	New Measurements of the EMC Effect at 12 GeV 26-414, MIT Laboratory for Nuclear Science	Cameron Cotton 09.00 - 09.20
	Testing the EMC-SRC Hypothesis with the BAND Experiment 28-414, MT Laboratory for Packer Science	Sara Ratif 09:20 - 09:40
	Measurements and Simulations of (e,e'n)/(e,e'p) in the Proton-Rich Nucleus 3He 26-414, MIT Laboratory for Fuclear Science	Erin Seroki 09:40 - 10:00
10:00	SRC Scaling Below the Inclusive Limit 26-414, MIT Laboratory for Publicar Science	Andrew Dennistor 10:00 - 10:20
	Neutron-Proton Pair Dominance of SRC pairs with a Real Photon Beam 26-414, MIT Leboratory for Nuclear Science	Phoebe Shar. 10:20 - 10:40
	Preliminary results of Short-Range Correlations study in exotic nuclei at R3B 26-414, MIT Laboratory for Nuclear Science	Hang Q 10:40 - 11:00
11:00	Coffee Break 26-414, MiT Leboratory for Nuclear Science	11:00 - 11:30
	SBS GMn Experiment 28-414, MT Laboratory for Nuclear Science	Provakar Datte 11:30 - 11:50
2:00	Design, Calibration, and Performance of a Segmented, Sampling Hadron Calorimeter Employer Sebastian Seeds	d in the Super BigBite Sp.
	GRINCH Gas Cherenkov Detector for SuperBigbite Spectrometer, Jefferson Lab 26-414, MIT Laboratory for Nuclear Science	Maria Satni 12:10 - 12:30
	Lunch	
3:00		
	26-414, MIT Laboratory for Nuclear Science	12:30 - 13:30

Determination of the polarization observables T,P and H in the reaction Sigamma p \rightarrow p \pi^00	
26-414, MIT Laboratory for Nuclear Science	13:30 - 13:50
Experimental study of polarization observables in pi0 and eta photoproduction off quasifree nucleons	Nicolas Jermann
26-414, MIT Laboratory for Nuclear Science	13:50 - 14:10
Feasibility Study of ∧d Elastic Scattering in Data From Photoproduction Off Deuteron	Brandon Tumeo
26-414, MIT Laboratory for Nuclear Science	14:10 - 14:30
Measuring CLAS12 deuterium pion electro-production cross sections for e4nu	Caleb Fogler
26-414, MIT Laboratory for Nuclear Science	14:30 - 14:50
φ meson photo-production at 9 GeV on nuclear targets at GlueX	Bo Yu
26-414, MIT Laboratory for Nuclear Science	14:50 - 15:10
Spectroscopic analysis of exotic hadrons using effective theories	Ankush Sharma
26-414, MIT Laboratory for Nuclear Science	15:10 - 15:30
Coffee Break	
26-414, MIT Laboratory for Nuclear Science	15:30 - 16:00
Exploring proton in-medium modifications through polarization-transfer measurements	Tim Kolar
26-414, MIT Laboratory for Nuclear Science	16:00 - 16:20
Pion parton distribution functions within a light-front wave function approach	Simone Venturini
26-414, MIT Laboratory for Nuclear Science	16:20 - 16:40
Diquarks in Nuclei: QCD effects in Nuclear Physics Jennin	er Rittenhouse West
26-414, MIT Laboratory for Nuclear Science	16:40 - 17:00
An overview of the MOLLER experiment at Jefferson lab	Devi Adhikari
26-414, MIT Laboratory for Nuclear Science	17:00 - 17:20

	Duck Boat tour		
19:00			
	Prudential Center	18:30 - 19:50	

Schedule

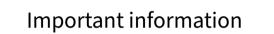
Sunday, 7th August 2022





GRC buses leave at 12 pm, **2pm**, 4pm from **Embassy Suites Hotel** at Boston Logan Airport 207 Porter Street, Boston, MA

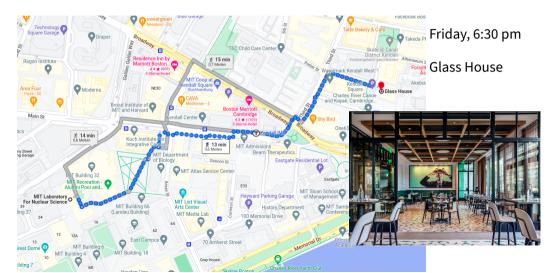
Need to arrive 1 hour before departure!



Important information



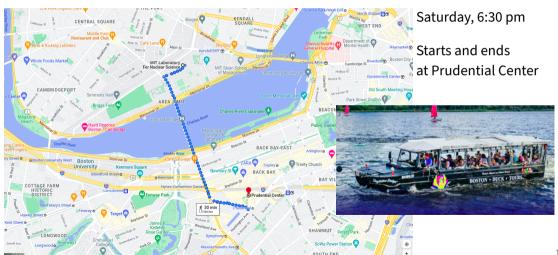
Social event- Workshop dinner



Important information



Social event- Duck Boat tour





Enjoy the workshop!