

	Monday, August 1, 2022	Tuesday, August 2, 2022	Wednesday, August 3, 2022	Thursday, August 4, 2022	Friday, August 5, 2022
8:30–9:00am	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:00–9:30am	Welcome/Introduction from IAIFI Director, Jesse Thaler	Lightning Talks	Lightning Talks	Lightning Talks	Lightning Talks
9:30–10:00am	Foundations of Geometric Deep Learning I: Taco Cohen, Research Scientist, Qualcomm Research Netherlands	Foundations of Geometric Deep Learning II: Taco Cohen, Research Scientist, Qualcomm Research Netherlands	Deep learning in the large-width regime II: Yasaman Bahri, Research Scientist, Google Research (Brain Team)	Machine Learning for Beyond-the-Standard-Model Physics II: Sven Krippendorf, Senior Researcher, Mathematical Physics and String Theory, Ludwig-Maximilians Universität	Machine learning for many-body physics II: Juan Carrasquilla, Research Scientist, Vector Institute; Adjunct Assistant Professor, University of Waterloo
10:00–10:30am					
10:30–11:00am	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00am–11:30am	Representations, networks, and symmetries for learning from particle physics data: Javier Duarte, Assistant Professor, University of California, San Diego	Model compression and fast machine learning in particle physics: Javier Duarte, Assistant Professor, University of California, San Diego	Machine Learning for Beyond-the-Standard-Model Physics I: Sven Krippendorf, Senior Researcher, Mathematical Physics and String Theory, Ludwig-Maximilians Universität	Machine learning for many-body physics I: Juan Carrasquilla, Research Scientist, Vector Institute; Adjunct Assistant Professor, University of Waterloo	Tutorial II for Machine learning for many-body physics: Di Luo, IAIFI Fellow
11:30am–12:00pm					
12:00–12:30pm	Lunch	Lunch	Lunch	Lunch	Lunch
12:30–1:00pm					
1:00–1:30pm	Tutorial I for Foundations of Geometric Deep Learning: Denis Boyda, Incoming IAIFI Fellow	Tutorial II for Foundations of Geometric Deep Learning: Denis Boyda, Incoming IAIFI Fellow	Tutorial for Deep learning in the large-width regime: Anna Golubeva, IAIFI Fellow	Tutorial for Machine Learning for Beyond-the-Standard-Model Physics: Modeling and inference: connecting theory and data: Siddharth Mishra-Sharma, IAIFI Fellow	Mini-Hackathon
1:30–2:00pm					
2:00–2:30pm	Tutorial I for Model compression and fast machine learning in particle physics: Training Invariant Networks: Dylan Rankin, Postdoc, MIT/IAIFI	Tutorial II for Model compression and fast machine learning in particle physics: Compressing Neural Networks for Ultrafast Inference: Dylan Rankin, Postdoc, MIT/IAIFI			
2:30–3:00pm					
3:00–3:30pm	Break	Coffee Break	Coffee Break	Coffee Break	
3:30–4:00pm		Deep learning in the large-width regime I: Yasaman Bahri, Research Scientist, Google Research (Brain Team)	Career Panel	Tutorial I for Machine learning for many-body physics: Di Luo, IAIFI Fellow	
4:00–4:30pm	Welcome Dinner				
4:30–5:00pm					
5:00–5:30pm				Break	
5:30–6:00pm					
6:00–8:00pm				IAIFI Social and Dinner	