Physics meets AI

	Mon 12.	Tue 13.	Wed 14.	Thu 15.	Fri 16.
9.00-10.30	Rezende	Rezende	Grün	Gabrie	Plehn
10.30-11.00	Coffee				
11.00-12.30	Cole	Melko	Gabrie	Carleo	Heimel | Vicentini
12.30-14.30	Lunch				
14.30-16.00	Melko	Kutyniok	Kutyniok	Plehn	
16.00-16.30	Coffee		free afternoon		
16.30-18.00	Bohrdt	Cole | Melko		Heimel | Carleo	
18.00-... ?		Postersession	Beer garden?	Postersession	

Titles

Annabelle Bohrdt (Harvard University): Understanding your network - towards interpretability in machine learning applications in many-body physics

Theo Heimel (Heidelberg University), replacing Anja Butter: Boosting event generation & unfolding with generative networks

Giuseppe Carleo (EPFL, Lausanne): Neural network quantum states: from ground states to dynamics

Alex Cole (Amsterdam University):
1) Simulation-based inference for physics and beyond
2) Machine learning for string theory

Marylou Gabrie (École Polytechnique, Paris): Beyond ground states: Assisting sampling of physical states with generative models

Daniel Grün (LMU Munich): Artificial Intelligence for Precision Cosmology

Gitta Kutyniok (LMU Munich):
1) Mathematical Foundations of Deep Learning
2) Reliable AI: Dream or Reality?

Roger Melko (Perimeter Institute, Waterloo):
1) Generative models and many-body physics
2) Autoregressive models and quantum state reconstruction
Tutorial: Quantum state reconstruction of Rydberg atom arrays

Tilman Plehn (Heidelberg University):
1) ML and LHC Physics
2) Bayesian Networks and Uncertainties

Danilo Rezende (DeepMind):
1) Generative Models, Manifolds and Symmetries: Tools
2) Generative Models, Manifolds and Symmetries: Applications

Filippo Vicentini (EPFL, Lausanne): NetKetl: hands-on tutorial on neural network quantum states (Tutorial)