



# Artificial Intelligence and the Uncertainty challenge in Fundamental Physics

## jeudi 30 novembre 2023

### Controlling uncertainties in generative models (11:40 - 12:25)

-Présidents de session: Thomas Vuillaume

time	[id] title	presenter
11:40	[19] Potential and challenges of highly dimensional generative models	KASIECZKA, Gregor

### Controlling uncertainties in generative models (14:00 - 18:00)

-Présidents de session: Mehmet Ozgur Sahin; tommaso dorigo

time	[id] title	presenter
14:00	[21] Machine-learning and equations-informed tools for generation and augmentation of turbulent data.	BIFERALE, Luca
14:45	[11] Generative modeling in genomics and a perspective on uncertainty quantification	YELMEN, Burak
15:30	[7] Uncertainty-aware diffusion models for LHC Event Generation	PALACIOS SCHWEITZER, Sofia
16:00	Group photo	
16:05	Coffee break	
16:30	[9] Data driven background estimation in HEP using generative adversarial networks	SAHIN, Mehmet Ozgur
17:00	[1] Using an adversary trained on a control sample to control systematic errors	WATTS, Gordon