Contribution ID: **7**   Type: **not specified**

Machine Learning and Flows for Lattice QCD

Recently, there have been some very impressive advances in generative models for sound, text and images. In this talk, I will look into applications of generative models to Lattice QCD. The models I will consider are flows, which are families of diffeomorphisms transforming simple base distributions into complicated target distributions. I will explain why we believe that flows are suitable for Lattice QCD. I will give details on how we built these flows, and explain how known symmetries of LQCD can be incorporated into them.

Presenter: RACANIÈRE, Sébastien (DeepMind)