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Generative models: their evaluation and their limitations

I will present and discuss several proposed metrics, based on integral probability measures, for the evaluation of generative models (and, more generally, for the comparison of different generators). Some of the metrics are particularly efficient to be computed in parallel, and show good performances. I will first compare the metrics on toy multivariate/multimodal distributions, and then focus on HEP examples from the JetNet jet dataset. I will discuss the power of the tests and their implementation in TensorFlow2, taking the opportunity to discuss, more generally, the limitations in the usage of generative models in HEP.

To be presented by Samuele Grossi

Primary Field of Research

Particle Physics

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