

School of Physics and Astronomy

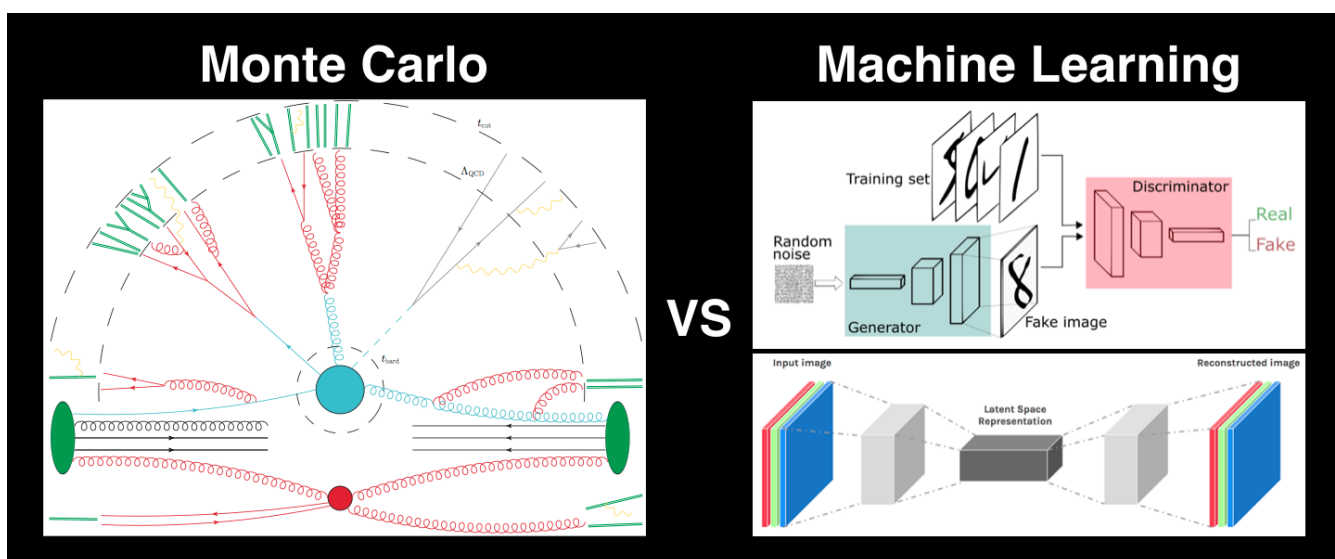
HEP SEMINAR

Event Generation and Statistical Sampling with Deep Generative Models

Rob Verheyen, Radboud University

Monte Carlo event generators are widely used in particle physics as a tool to translate physical theories to experimental predictions.

A fundamental problem with event generators is that they require large amount of computational resources and time. In this talk, I will discuss some recent work that has explored the use of machine learning to speed up the event generation process. Several generative models and their performance as event generators are compared. Furthermore, I will discuss some possible applications and further advantages of a machine learning approach to event generation.



When: Friday 29th March
Time: 10am
Where: Level 1, Seminar Room 107,
10 College Walk, Clayton

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