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Generator model for 4-momenta events

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Event generation and Hadronization make up a significant fraction of our high energy physics simulation chain. Therefore there exists a strong interest in using generative models to supplement these simulation tasks. In both applications the data is commonly expressed as a list of 4-momenta. This presents an additional challenge to any generative model, as 4-momenta have inherent complex correlations that need to be correctly reproduced.

Several generative models for simulating 4-momenta are presented and discussed, with special focus on how the problem of complex correlations is addressed.

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Classification de Session: Generative Models workshop