

Design choices for Flow Models in HEP data

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A normalising flow is a stochastic tool that can be used for generative modelling and reconstruction. While not the lightest models in the toolbox, normalising flows are often very accurate and their bi-directionality can be uniquely advantageous. Literature that guides architecture and design choice for users of these models is focused on non-HEP applications, and optimal results in HEP require rethinking those guidelines. We leverage toy models, and our experience with real HEP use, to provide guidance targeted at HEP users.

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