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Machine Learning in Jet Physics

Thursday 26 September 2019 12:00 (20 minutes)

Machine Learning techniques have been widely used in different applications in high energy physics. In this talk I would like to speak about two different machine learning algorithms used to classify signal and background jets. We compare the performance of a convolutional neural network (CNN) trained on jet images with dense neural networks (DNNs) trained on n -subjettiness variables to study the distinguishing power of these two separate techniques applied to top quark decays. We obtain a comparable results from both techniques which suggest that the underlying physics learned using these neural networks are the same.

Presenter: VARMA, Sreedevi

Session Classification: Thursday morning talks