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Supervised Attention for Jet Classification

Tuesday 6 July 2021 10:40 (20 minutes)

Secondary vertex reconstruction is a key intermediate step in building powerful jet classifiers. We use a neural network to perform vertex finding inside jets in order to improve classification performance. This can be thought of as a supervised attention mechanism - directing the classifier towards the relevant information inside the jet. We show supervised attention outperforms an identical network with standard unsupervised attention.

https://arxiv.org/abs/2008.02831

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