

Search for New Physics using semi-supervised ML techniques

jeudi 23 janvier 2020 11:45 (25 minutes)

Preliminary studies for model-independent search for new physics at the LHC will be presented in the context of anomaly detection by training semi-supervised methods (e.g. autoencoders). The use-case of a search for a dijet resonance on a QCD background will be considered using toy datasets (Delphes sample and the LHC Olympics 2020 data).

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Classification de thématique: ML for analysis : Application of Machine Learning to analysis, event classification and fundamental parameters inference