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Interpretable machine learning in HEP analysis

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Machine learning methods have proved powerful in particle physics, but without interpretability there is no guarantee the outcome of a learning algorithm is correct or robust. Thus the interpretable machine learning (IML) framework become necessary in the HEP large data era. I am demonstraintg how the IML framework can be achieved with detailed analysis on a few LHC processes as example, and explaining further application and interpretation concepts.

Primary author: QIAN, Zhuoni (Hangzhou Normal University)

Presenter: QIAN, Zhuoni (Hangzhou Normal University)

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