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Search for Higgs decay to charm quark pair at LHCb

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LHCb is a spectrometer that covers the forward region of proton-proton collisions, in the pseudo rapidity range from 2 to 5. Thanks to its excellent vertex reconstruction system, it has already demonstrated its capability to identify heavy flavour jets. Moreover, the c-jet identification (c-tagging) is a crucial ingredient for the search of $H \rightarrow cc$ at LHCb. In this talk, the c-tagging algorithms used at LHCb will be illustrated, as well as new methods based on machine learning techniques that exploits the jet substructure. The prospects on the search for $H \rightarrow cc$ in future upgrades will be given.

You are

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