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## Performance of heavy flavor jet tagging in CMS

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Identification of hadronic jets originating from heavy flavor quarks in the final state is extremely important to study the properties of the top quark and the Higgs boson, along with various searches for signatures of new physics beyond the standard model. The latest developments in the identification algorithms based on deep learning methods make it an interesting topic also from a technical perspective. In this talk, a summary of various identification algorithms along with their performance in simulation and pp collision data, in boosted and resolved topologies, will be presented. In addition, the possible improvements in the existing algorithms required to cope with the challenges at the high luminosity LHC will be discussed.

### In-person participation

Yes

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