20th International Conference on Computing in High Energy and Nuclear Physics (CHEP2013)

Contribution ID: **366** Type: **Poster presentation**

Real-time flavor tagging selection in ATLAS

Monday, 14 October 2013 15:00 (45 minutes)

In high--energy physics experiments, online selection is crucial to reject most uninteresting collisions and to focus on interesting physical signals.
The b--jet selection is part of the trigger strategy of the ATLAS experiment and is meant to select hadronic final states with heavy--flavor content. This is important for the selection of physics channels with more than one b--jet in the final state, enabling to reject QCD light jets and maintain affordable trigger rates without raising jet energy thresholds. ATLAS introduced b--jet triggers in 2011 and deployed more complex and better performing tagging algorithms in 2012. An overview of the b--jet trigger menu and its performance on real data is presented in this contribution.
Data--driven techniques to extract the online b--tagging performance, a key ingredient for all analyses relying on such triggers, are also discussed and results presented.

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Session Classification: Poster presentations

Track Classification: Data acquisition, trigger and controls