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Type: **Poster and Flash talk**

Flavour Tagging in Run 3 at the LHCb experiment (Poster Upload)

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One of the main goals of the LHCb experiment is to study charge-parity violation by looking at the decays of the large variety of beauty mesons created in pp collisions at LHC. Such studies are particularly challenging in the presence of $B-\bar{B}$ oscillations as the B meson flavour at production time might be different from the flavour at its decay time.

Flavour Tagging algorithms exploit the correlations between the B meson production flavour and features of the global event to tag the candidate as B or \bar{B} . Together with the tagging decision, the probability of a wrong tagging decision must be provided which is estimated through the application of Machine Learning algorithms.

The purpose of this contribution is to introduce the strategy and developments of the Flavour Tagging algorithms for Run 3.

What of the following keywords match your abstract best?

Other

Please tick if you are a PhD student and wish to take part to the poster prize competition!

I am a PhD student

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