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Exercise 3: Flavour tagging with Transformers

Friday 13 March 2026 09:30 (1 hour)

Flavour tagging allows us to identify jets that originate from b- and c-quarks, and is a crucial tool for the physics programme of LHC experiments. The jet flavour can be predicted based on the characteristics of the charged particle tracks associated with it. This set of variable number and unordered tracks lends itself to a graph representation, which can be exploited by transformers. In this exercise, we train and evaluate a transformer for identifying b-jets.

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