

XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 7

Type: **not specified**

Heavy quark mass effects in associated production

Tuesday 17 April 2018 15:20 (20 minutes)

In this talk we introduce a newly developed scheme based on an extension of the 5F flavour scheme, which treats b quarks as massless partons, to include full heavy quark mass dependency. We name this extension five-flavour massive scheme. We implement this scheme at MC@NLO accuracy in Sherpa. We present some results, obtained in this scheme, for b quarks produced in association with a vector boson or a Higgs boson.

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Session Classification: WG5: Physics with Heavy Flavours

Track Classification: WG5: Physics with Heavy Flavours