



Contribution ID: 814

Type: **Parallel session talk**

Can PDFs absorb new physics?

Tuesday 22 August 2023 09:10 (15 minutes)

The role of the Parton Distribution Functions (PDF) is crucial not only in the precise determination of the SM parameters, but also in the interpretation of new physics searches at the LHC. In this talk we show the potential of global PDF analyses to inadvertently ‘fit away’ signs of new physics, by identifying specific scenarios in which the PDFs may completely absorb signs of new physics, thus biasing theoretical predictions. At the same time, we discuss several strategies to single out and disentangle such effects.

Collaboration / Activity

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Session Classification: T10 Searches for New Physics

Track Classification: Searches for New Physics