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Collider phenomenology of new neutral scalars in a flavoured multi-Higgs model

Friday, 8 July 2022 12:15 (15 minutes)

In this presentation, I discuss collider signatures with a focus on new physics scenarios that are predicted in various classes of multi-Higgs doublet models. A thorough analysis of one of these signatures is conducted in the context of the Large Hadron collider, based on a topology with two charged leptons and 4 jets arising from first/second generation chiral quarks. I discuss how the kinematics of the scalar fields can be used to efficiently separate the signal from the dominant backgrounds and its implications in future runs of the LHC.

In-person participation

Yes

Primary author: PINO GONÇALVES, João Pedro (University of Aveiro)

Co-authors: PASECHNIK, Roman (Lund University); VATELLIS, Vasileios (Aveiro University); Dr MORAIS, António (University of Aveiro); Dr ONOFRE, António (University of Minho); Dr FERREIRA, Pedro (University of Lisbon); Dr FREITAS, Felipe (University of Aveiro)

Presenter: PINO GONÇALVES, João Pedro (University of Aveiro)

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