## 9th International Conference on New Frontiers in Physics (ICNFP 2020)



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Type: Talk

# **Higgs Hidden/Dark Sector Physics**

Friday 4 September 2020 16:30 (45 minutes)

The Standard Model (SM), while extremely powerful as a description of the strong, electromagnetic and weak interactions, does not provide a natural candidate to explain Dark Matter (DM). Theoretical as well as experimental motivation exists for the existence of a hidden or dark sector of phenomena that couples either weakly or in a special way to SM fields. Hidden or dark sectors near the weak scale are motivated by naturalness, thermal dark matter and electroweak baryogenesis. Hidden or dark sector states appear in many extensions to SM to provide a particulate candidate for dark matter in the universe or to explain astrophysical observations such as the positron excess observed in the cosmic radiation flux. If there is such a family of Beyond-the-Standard Model (BSM) particles and interactions, they may be accessible experimentally at the present and future High Energy Colliders.

#### Is this abstract from experiment?

No

#### Internet talk

Yes

## Name of experiment and experimental site

N/A

## Is the speaker for that presentation defined?

Yes

## Details

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