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Particle Physics at LPTHE

Vendredi 28 Juin 2024, 14 :00
LPTHE, Library
Domaines : hep-ph

Titre : *Thermal dark photon dark matter and a long-lived axion mediator*

Orateur : **Bastian Jaime Diaz Saez (Pontificia Universidad Católica de Chile)**

Résumé : *In this talk I am going to present about my recent work on the thermal freeze-out of a dark photon dark matter in the dark axion portal : a triple coupling among an axion-like particle, a dark photon, and the SM photon. We pay special attention to the coscattering regime (aka conversion-driven freeze-out). Furthermore, we explore a few prospects of having the axion as a long-lived particle, possibly to be searched at the LHC and future experiments.*
