

Séminaire de physique des particules et de cosmologie

Mardi 07/01/2020, 16:00

Orme des Merisiers Salle Claude Itzykson, Bât. 774

Resonant Detection of Dark Matter

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The puzzle of dark matter continues to prove tantalising to theorists and experimentalists alike. In this talk we will discuss two newly-proposed strategies for resonant detection of dark matter in entirely different regimes. In the first, we will discuss how long-range number-conserving interactions of dark matter with the Standard Model can be leveraged to produce resonant signals. In the second, we will discuss resonant frequency conversion of axion dark matter as an alternative to standard haloscopes, with the potential to probe axions much lighter than a microeV.
