

A taste of dark matter: Flavour constraints on pseudoscalar mediators

Tuesday

February 17

4 P.M.

Rm 415 NSH

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Dark matter interacting with the Standard Model via a light mediator can induce observable signals in indirect detection experiments and experience large self-interactions, while evading otherwise strong constraints from direct detection experiments. However, new light particles can induce new flavour-changing interactions in the Standard Model, opening alternative avenues to testing these models. In this talk I will present these constraints with a focus on light pseudoscalars. I will discuss the implications for explanations of the DAMA annual modulation and Galactic Centre excess signals.