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Scalar dark matter with colored partner

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In my talk I will review the case of scalar dark matter model in which case the dark matter candidate couples to the Standard Model (SM) fermions through Yukawa interactions involving a new vector-like fermion. The latter models are already know to give rise to particularly interesting gamma ray signals when the Yukawa coupling is restricted to leptons. In my talk, I will present our latest results associated to a similar Yukawa interactions to SM quarks including constraints and prospects for Direct detection, colliders, and indirect dark matter searches.

Primary author: Dr LOPEZ HONOREZ, Laura (Vrije Universiteit Brussel)

Presenter: Dr LOPEZ HONOREZ, Laura (Vrije Universiteit Brussel)

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