

Dark sector of an extended 2HDM with Q4 symmetric matter

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We describe the phenomenology of the scalar and dark matter sectors of an extended 2HDM with Q4 symmetry among the SM fermions. The model features a Higgs portal to a dark sector comprised of heavy right handed neutrinos. We discuss relic abundance as well as direct detection constraints on the DM candidate.

Presenter: Dr ESPINOZA HERNÁNDEZ, Catalina (Instituto de Física, Universidad Nacional Autónoma de México.)

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