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Scalar dark matter with top-quark portal

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A scalar dark matter model interacting with the standard model sector via top-quark portal as well as Higgs portal is presented. In the model a scalar dark matter S and a vector-like fermion T are new physics particles and assumed to have odd parity under a Z_2 symmetry, while all the standard model fields have even parity. The impacts of new top-quark portal interaction, $y_{ST} S \bar{T} t_R + h.c.$, on dark matter phenomenology and collider searches will be emphasized.

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