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Dark matter through the Higgs portal: constraints and expectations

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I review scenarii in which the particles that account for the dark matter in the universe interact only through their couplings with the Higgs sector of the theory, the so-called Higgs-portal models. I summarize and update the present constraints and future prospects from the collider physics perspective and compare them to what can be obtained from the cosmological relic abundance as well as from direct and indirect dark matter detection in astroparticle physics experiments.

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