

Natural supersymmetric dark matter in Twin Higgs models

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Supersymmetric twin Higgs models have a discrete symmetry for which each standard model particle and its supersymmetric partner have a corresponding state that transforms under a mirror standard model gauge group. This framework is able to accommodate the nondiscovery of new particles at the LHC with the naturalness of the electroweak scale. I will show that this framework provides natural dark matter candidates with promising signals at future direct-detection experiments. Based on 2202.10488 and 1911.03481.

Orateur: BADZIAK, Marcin (University of Warsaw)

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