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Probing dark matter at the LHC through weakly interacting mediators

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Searches for direct interactions of dark matter with standard-model particles at colliders are challenging and often constrained by direct detection experiments. However, many scenarios predict mediator particles with electroweak interactions, which could well be in reach of collider experiments. Focusing on Higgs-portal models with fermion dark matter, I will present the search strategies and prospects to find such mediators at the LHC. Connections with direct detection experiments and the observed dark-matter relic abundance will also be discussed.

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