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Dark Matter (Mediators) at Colliders

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Thermal Dark Matter (DM) must have sizable couplings to lighter particles. This motivates Dark Matter searches at colliders. However, these ‘lighter particles’ need not include the particles humans can accelerate (basically electrons, u and d quarks, and gluons). Moreover, in most cases collider searches for the particle mediating the interaction of DM with lighter particles are more promising than searching for DM production. Special attention is paid to the production of mediators that do not couple to first generation fermions, and thus have to be produced in higher order processes.

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