

General bounds on Conformal Dark Sectors

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I present the most general bounds one can make on the phenomenology of hidden sectors with conformal symmetry, which are weakly coupled to the SM. Without the need to specify their particle or symmetry content, we have derived a consistent description of final states in a generic CFT, and have applied it to current experimental runs. Our analysis covers a wide range of phenomena: we investigate collider searches (LEP, LHC run 2), a number of low-energy experiments, and effects on cosmology and astrophysical objects. The combined results form a guide to model building with conformal sectors.

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