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Electroweak symmetry breaking and cold dark matter from strongly interacting hidden sector

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We consider a hidden sector with new confining gauge theory similar to ordinary QCD, and show that the lightest mesons in the hidden sector (hidden sector pion h) are automatically stable as a consequence of flavor conservation of hidden sector strong interaction. There would be more than one neutral Higgs-like scalar bosons, and they could decay mainly into the CDM pair, if that decay channel is kinematically allowed.

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