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Colored dark matter

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We explore the possibility that Dark Matter is the lightest hadron made of two stable color octet Dirac fermions Q. The cosmological DM abundance is reproduced for $M_Q \approx 9.5$ TeV, compatibly with direct, indirect and collider searches. Hybrid hadrons, made of Q and of SM quarks and gluons, have large QCD cross sections, and do not reach underground detectors. Their cosmological abundance is 10^5 times smaller than DM, such that their unusual signals seem compatible with bounds.

Summary

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