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Cogeneration of Baryons and Twin Quark Dark Matter

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The dark sector may be as rich and varied as the standard model. Twin Higgs models, which explain the little hierarchy problem, provide a compelling and predictive realization of such a dark sector, where the standard model field content is copied in a hidden sector. I show how spontaneously breaking the twin color can naturally lead to asymmetric dark matter and baryogenesis in addition to solving the hierarchy problem. I outline how this scenario can be tested at the LHC and future colliders.

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