Particle Physics Seminar

New strong interactions and the t-bar asymmetry

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Tuesday, March 25 ◆ 4:00 P.M.
Room 415 Nieuwland Science Hall

The CDF and D0 experiments at Tevatron measure a top-quark forward-backward asymmetry significantly larger than the standard-model prediction. We construct a model which involves new strong interactions at the electroweak scale and can explain the measured asymmetry. Our model possesses a flavor symmetry which allows to evade flavor and collider constraints, while it still permits flavor-violating couplings of order 1 which are needed to generate the asymmetry via light t-channel vectors.

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