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Minimal theory for lepto-baryons and low scale unification

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We define the simplest anomaly-free theory where baryon and lepton numbers are defined as local symmetries spontaneously broken at the low scale which predicts the existence of lepto-baryons. In this context it is possible to unify the Standard Model gauge interactions at the low scale in four dimensions in agreement with experiments. The cosmological implications and the possibility of lepto-baryons as cold dark matter are briefly discussed.

Based on work done with Pavel Fileviez Perez, Sebastian Ohmer, Hiren H. Patel
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