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Charged gravitational instantons: extra CP violation and charge quantisation in the Standard Model

Thursday, 30 July 2020 13:30 (3 minutes)

We argue that quantum electrodynamics combined with quantum gravity results in a new source of CP violation, anomalous non-conservation of chiral charge and quantisation of electric charge. Further phenomenological and cosmological implications of this observation are briefly discussed within the standard model of particle physics and cosmology

Secondary track (number)

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Session Classification: Formal Theory - Posters

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