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(g-2) of the muon and screened modified gravity

The Fermilab measurement of the anomalous magnetic moment of muons seems to be at odds with the standard model of particle physics. Coupled scalar fields such as the chameleon or the symmetron, which modify gravity locally, could account for the discrepancy.

Auteur principal: BRAX, philippe (IPHT Saclay)

Orateur: BRAX, philippe (IPHT Saclay)