

Proposed measurements of electromagnetic dipole moments of strange and charm baryons at LHC

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Electromagnetic dipole moments of fundamental particles provide powerful probes for physics within and beyond the Standard Model. For the case of short-lived particles these have not been experimentally accessible to date due to the difficulties imposed by their short lifetimes. Novel experimental techniques have been developed to allow a unique program of direct measurements of electric and magnetic dipole moments of strange and charm baryons at the LHC. In recent years significant R&D and feasibility studies have been carried on with encouraging results. The physics program and the projected sensitivities for different luminosity scenarios are discussed.

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