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Flavour-breaking effecting in the Hyperon charges

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We present results from the QCDSF/UKQCD/CSSM collaboration for the charges g_T , g_A and g_S of the baryon octet, obtained through the use of Feynman-Hellmann techniques. We use a flavour symmetry breaking method to systematically approach the physical quark mass using ensembles that span five lattice spacings and multiple volumes. We extend this existing flavour breaking expansion to also account for lattice spacing and finite volume effects in order to quantify all systematic uncertainties.

Topical area

Structure of Hadrons and Nuclei

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