

XVth Quark Confinement and the Hadron Spectrum



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Lattice QCD calculation of electroweak box contributions to superallowed nuclear and neutron beta decays

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I will discuss the first lattice QCD calculation of the universal axial γW -box contribution to both superallowed nuclear and neutron beta decays. This contribution emerges as a significant component within the theoretical uncertainties surrounding the extraction of $|V_{ud}|$ from superallowed decays, thereby making an important impact on the precision test of the first-row CKM unitarity.

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