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Dr. Mikhail Gorshteyn

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**Isospin breaking effects in low-energy precision tests**

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14:15

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**Abstract**

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I discuss the connection between the isospin-breaking corrections to the superallowed beta decays and the neutron skins that are accessed with parity-violating elastic electron scattering on nuclei. This connection, if established, would allow to deduce the size and uncertainty of the largest nucleus-dependent correction to the rate of superallowed beta decay,  $\delta_C$ , to measurements of neutron skins of nuclei with nearly equal number of neutrons and protons.

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