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Experimental overview of hyperon weak radiative decays

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Hyperon decays serve as important windows for searching for new sources of CP violation and as ideal probes for studying strong interactions at low energies. In addition to the well-known hadronic weak decays of hyperons, this report presents an experimental overview of the weak radiative decays of hyperons, alongside the less-studied neutron-involved hyperon decays. These studies provide precise experimental constraints for addressing long-standing questions in low-energy strong interaction, such as the DeltaI=1/2 rule and Hara's theorem, while also setting important limists on the new physics beyond the SM.

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