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Rare Decays Probing Physics Beyond the Standard Model

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The existence of three generations of fundamental fermions gives rise to a wealth of phenomena, such as CP violation and flavour oscillations. Because of various conservation laws, including baryon number, lepton number and charged lepton flavour conservation, many otherwise possible reactions, asymmetries, and decays are prohibited or strongly suppressed. The search for rare decays helps to explore the range of validity of such laws and, once observed, rare decays may guide in identifying possible physics not yet incorporated in the Standard Model. An overview of characteristic searches and typical approaches will be presented.

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