

Fingerprinting CP-violating New Physics with Rare B Meson Decays

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Of all the particle decays that could be studied in the search for new physics beyond the Standard Model (SM), few are as promising as the rare B meson decays. In recent years, these decays have shown anomalies, tensions between SM predictions and experimental data. If these are signs of new physics, the key question is what type of new physics could be causing the anomalies. Interestingly, such new physics could also contain new sources of CP violation. In this talk, I will show how measurements of CP violation in rare B decays can help identify the underlying new physics.

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