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Higher-Order Flavor Sum Rules: From Amplitudes to Observables

In my talk, I will discuss the theory of higher-order flavor sum rules, with a focus on U-spin. In recent years, we have come to understand that flavor sum rules possess a rich mathematical structure. This insight has led to the development of a powerful formalism that enables the derivation of amplitude sum rules to arbitrary order in symmetry breaking—without the need for explicit calculation. The question, however, remains: does some of this structure carry over to the level of observables? In my talk, I will present recent results that point toward a positive answer, offering hope for the possibility of high-precision, symmetry-based predictions for multibody hadron decays.

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