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Automating Beyond the Standard Model Phenomenology

Tuesday 13 February 2024 11:00 (30 minutes)

New physics beyond the Standard Model (SM) is needed to address open questions within the SM or to explain tensions between SM predictions and experimental data. Any new physics model, however, generally also affects the predictions of a large number of well-measured observables that must be taken into account as constraints.

In this talk I will discuss how the SM Effective Field Theory (SMEFT) can be used to simplify the phenomenology of new physics models and how to constrain them in an automated way. I will present an implementation of this method using the public open source physics codes flavio, wilson, and smelli.

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