Contribution ID: 95

Estimation of higher-order corrections and theory uncertainties in the Higgs and Z-boson pT-spectrum at the LHC

Using effective-field-theory methods (factorization/resummation) to predict and analyze the 4-loop structure of the pT spectrum at small pT.

Use this to get a precise estimate of higher-order theory uncertainties and their correlations.

- about 75% physics (mostly analytic/symbolic) and 25% coding (C++)

Group

Т

Project Category

B4. Theory of Elementary Particles

Special Qualifications

some QFT/particle pheno background is needed (but no explicit QFT is needed), good theory/math background on solving differential equations, using Mathematica, etc.

Primary author: TACKMANN, Frank (T (Phenomenology))