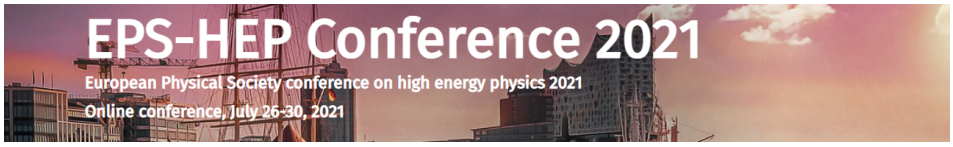

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Status of electroweak higher order corrections to the pseudo observables at the Z-resoncance

We work on the improvement of theoretical predictions for Standard Model electroweak pseudo-observables at the e^+e^- Z-resonance peak. This study is mandatory for example for the new Future Circular Collider (FCC). The missing higher-order computations involve many Feynman diagrams at three-loop order including all possible Standard Model particles. We make progress in completing the three-loop calculations with a new strategy by exploiting numerical methods to solve a system of differential equations between the master integrals. Which is the main part of the talk.

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Collaboration / Activity

FCC

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