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Achievements and challenges of high-precision Standard Model physics at future e+e-colliders

Wednesday, 26 October 2022 10:30 (30 minutes)

The new concepts of future electron-positron colliders such as Future Circular Collider, International Linear Collider or Circular Electron-Positron Collider push the precision state-of-the-art in experimental measurements. The tremendous efforts of experimental physicists to test the immense predictive power of the Standard Model are limited by the intrinsic uncertainties in the currently available theoretical calculations.

The bottleneck is due to the increasing complexity of Feynman integral calculations. In recent years, modern methods for the reduction and calculation of the Feynman integral have been developed. We will present some of the tools available on the market and highlight the advances in Feynman integral calculations.

Experiment context, if any

References

Significance

Presenter: USOVITSCH, Johann

Session Classification: Plenary