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Theorie-Palaver

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Lorentz room (Staudingerweg 7, 5th floor)

Melissa van Beekveld
Nikhef

Parton showers with higher logarithmic accuracy

Parton showers are essential tools for interpreting particle-collision data. To get the most out of available and upcoming data, it is important that these showers incorporate state-of-the-art theoretical predictions. The PanScales project aims to design parton showers that achieve higher logarithmic accuracy than any of the standard tools used at present. This talk will discuss the construction of logarithmically accurate parton showers, including the recent achievement of next-to-next-to-leading-logarithmic accuracy for the wide class of e^+e^- observables known as event shapes, and its impact on phenomenology.

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