



INVITATION

as part of the Particle Physics Seminar

to the talk by

Paolo NASON

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on

“Linear Power Corrections in Collider Processes”

Abstract:

In this talk I address recent advances regarding linear power corrections in collider processes, focusing on developments achieved within the large β_0 approximation framework. I present a general result that holds when massless partons are considered, offering a simplified approach to deriving both established and novel findings related to power corrections in collider processes. A key application of this result is the extension of linear power corrections calculations to hadronic shape variables in e^+e^- annihilation, advancing from the two-jet to the three-jet regime. In this framework, I present recent fits to available LEP data and discuss the impact of the newly found corrections. Finally, I discuss recent results regarding massive partons, applied in particular to top production and decay processes.

Time: Tuesday, 5 November 2024, 4:15 p.m.

Location: Erwin-Schrödinger Lecture Hall, 1090 Vienna, Boltzmannngasse 5, 5th floor

Join Zoom Meeting - Meeting ID: 933 4269 3866 Passcode: 185096
<https://univiennea.zoom.us/j/93342693866?pwd=aUpTR0VJNUhJY2Q0ajdaKzI1YWVhQ09>

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