



# 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  $\beta_0$  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.

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

**Location: Erwin-Schrödinger Lecture Hall, 1090 Vienna, Boltzmannngasse 5, 5<sup>th</sup> floor**

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