

Harnessing intricacies of Jets for Breakthroughs in QCD at the Collider Frontier **2024.10.25, 10 am, 科技楼 C602**

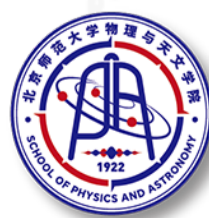
Jets have been pivotal in the advancement of Quantum Chromodynamics (QCD) since its inception, serving as a bridge between collider phenomenology and the formal language of field theory. Modern jet analysis empowers us to achieve significant breakthroughs in our understanding of QCD and enables direct comparisons with experimental data. In this talk, I will outline several key research areas within jet physics that deepen our understanding of QCD. These include deepening our understanding of heavy quark dynamics, investigating the effects of the medium, unraveling the hadronization process, and precision determination of the strong coupling. I will highlight the application of these studies at current colliders like the LHC, RHIC, and EIC.

Speaker: Dr. Kyle Lee (MIT)

Kyle Lee completed his PhD at Stony Brook University with George Sterman and held his first postdoctoral position at Lawrence Berkeley National Laboratory (LBNL). He is currently a postdoctoral researcher at MIT with Iain Stewart.



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