Contribution ID: **10**   Type: **not specified**

Duality Orbits of DLCQs and Holography

Thursday, December 4, 2025 10:00 AM (1 hour)

I will discuss BPS limits of M-theory that lead to U-dual webs of decoupled theories, whose fundamental degrees of freedom are described by matrix theories. The BPS limits are organized by five different duality orbits of M-theory in DLCQs. Via a generalization of the TTbar deformation to p-branes, this leads to a classification of holographic constructions in string theory. I will show that non-Lorentzian geometric techniques play an indispensable role in this framework. By examining the fundamental strings in these decoupled theories, I will argue how (non-)Lorentzian supergravity equations of motion arise from the corners associated with different matrix theories.

Presenter: YAN, Ziqi

Session Classification: Session