

# String Journal Club

UCLA

Friday, March 20<sup>th</sup> @ 10:30am  
Schwinger Lounge

## “Cusped Impurities: From Casimir Energy to Sudakov Radiation”

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**Abstract:** Cusped line defects play an important role in quantum field theory, with applications ranging from scattering amplitudes to quantum quenches and Casimir-energy computations. In this talk, I will discuss general properties of cusped line defects and, in particular, the cusp anomalous dimension that governs the partition function of a defect with a cusp. After reviewing the Euclidean setting and its connection to defect fusion and Casimir energy, I will turn to the Lorentzian regime and present results for the large-boost-angle (generalized Sudakov) limit.