

Spectral function asymptotics & imprint of the black hole singularity

Mukund Rangamani
(UC. Davis)

Date and time: **11:00 AM, 30 Mar, 2026**
Venue: **A 304**

Zoom link will be sent separately.



Abstract: I will explain analytic properties of thermal spectral functions of holographic CFTs. Using both OPE constraints and the knowledge of the exact spectral function, I will motivate (and verify) a certain factorization property. This factorization decouples the thermal OPE information from the non-perturbative contribution. Furthermore, using exact WKB methods, we can derive an asymptotic series for the latter. Finally, we will use this information to deduce the imprint of the black hole singularity in thermal correlation functions.