

String Journal Club

UCLA

Friday, March 13th @ 10:30am
Schwinger Lounge

“Ultralocal measure is not canonical”

Jan Boruch (UC Berkeley)

Abstract: Starting from canonical quantization, one can derive the path integral formulation and show that the resulting measure differs from the standard ultralocal one. This difference becomes particularly significant in asymptotically AdS spacetimes, where it leads to a distinct functional space for fluctuations. We will argue that this canonical measure helps resolve several conceptual issues, including the choice of admissible boundary conditions and the applicability of supersymmetric localization in such backgrounds. Based on upcoming work with Maciek Kolanowski and Donald Marolf.