

# Taming Mass Gap with Anti-de Sitter Space

*Monday, 19 February 2024 12:00 (45 minutes)*

Anti-de-Sitter space acts as an infra-red cutoff for asymptotically free theories, allowing interpolation between a weakly-coupled small-sized regime and a strongly-coupled flat-space regime. I will discuss this interpolation for theories in two dimensions from the perspective of boundary conformal theories. The appearance of a singlet marginal operator destabilizes a gapless phase existing at a small size, triggering a boundary renormalization group flow to a gapped phase that smoothly connects to flat space.

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