

Abstract

The concept of asymptotic symmetries has played a significant role in the discovery and subsequent developments of gauge/gravity (or holographic) dualities. Examples include the analysis of Brown-Henneaux on asymptotic symmetries of AdS₃ spaces, pointing at the existence of a two-dimensional Conformal Field Theory dual to quantum gravity in AdS₃, or more recently the Kerr/CFT correspondence. In this talk, I will discuss new holographic scenarios emerging by following the same philosophy. I will describe the asymptotic symmetries of certain classes of non-asymptotically AdS spaces and analyze the implications for their potential field theory duals. In particular, I will show that the corresponding field theories admit Cardy-like regimes allowing to derive universal formulas for their degeneracy of states. In particular, I will discuss how the Bekenstein-Hawking entropy could be recovered from the near-horizon symmetries of non-extremal black holes.