

The First Law of Complexity

Tuesday, October 22, 2019 9:35 AM (35 minutes)

Based on Nielsen's geometric approach, the variation of holographic complexity for two nearby target states only depends on the end point of the optimal trajectory, a result designated as the first law of complexity. As an example, we will examine the complexity=action conjecture when the AdS vacuum is perturbed by a scalar field excitation, which corresponds to a coherent state.

Primary authors: BERNAMONTI, Alice (Università degli Studi di Firenze); GALLI, Federico (INFN); MYERS, Rob (Perimeter Institute); RUAN, Shan-Ming (Perimeter Institute); JUAN, Hernandez (Perimeter Institute); SIMÓN, Joan (University of Edinburgh)

Presenter: BERNAMONTI, Alice (Università degli Studi di Firenze)

Session Classification: Tuesday morning 1

Track Classification: Various