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Investigations of Strongly Coupled Gauge Theories

In the recent years, investigations of strongly coupled systems have acquired an immense interest and importance. One of the reason is the failure of conventional and perturbative approach to describe them. In this work, we investigate the transport properties of different strongly correlated systems using gauge/gravity duality. The duality relates strongly coupled gauge theory in d-dimensions with the weakly coupled gravity theory in (d+1)-dimensions. We discuss various approaches of holography to investigate such systems and present our results that match with the experimental results.

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