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Investigations of strongly coupled gauge theories using holography

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Strongly coupled systems are ubiquitous especially in the field of high energy and condensed matter physics. Investigation of these systems is complicated as conventional and perturbative methods fail to describe them. But with the introduction of AdS/CFT duality (or holography), it is now possible to capture the essential features of strongly coupled systems.

In this work, we study the transport properties of different strongly coupled systems using holography. We investigate the transport properties of (3+1) dimensional boundary system at finite chemical potential using Einstein-Maxwell theory in bulk. We also explore the DC transport for non-relativistic condensed matter systems with hyperscaling violating geometry in the presence of the external magnetic field.

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