APCTP SEMINAR

Fluctuating Hydrodynamics from holography

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ICTS

December 22nd (Wed.) 15:00 (KST) Online via ZOOM

AdS/CFT duality implies that certain large N strongly coupled Conformal Field Theories have an alternate description as weakly coupled gravitational theories. The fluid-gravity correspondence is a well studied implication of the duality the hydrodynamic excitations of a holographic plasma are related to the long-lived quasinormal modes of the dual blackbrane. We revisit this old problem from the perspective of the Open Effective Field Theory of the simmering hydrodynamic modes. The analysis relies novel on а gravitational saddle to evaluate real-time correlators which is crucial to correctly account for the Hawking fluctuations of the blackbrane in addition to the dissipative quasinormal modes.

ZOOM Webinar

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