



PHYSIKALISCHES KOLLOQUIUM

Mittwoch, 11.12.2013, um 17:15 Uhr

Ort: Reichenhainer Str. 90; Neues Hörsaalgebäude, Raum: 2/N013



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MPI für Physik (München)

Gauge/Gravity Duality: New methods from string theory for strongly coupled systems

Based on string theory, gauge/gravity duality maps strongly coupled quantum field theories to weakly coupled gravity theories. It thus provides a new frame-work for studying physical phenomena in strongly coupled systems in a wide range of areas of physics. We give a paedagogical introduction to gauge/gravity duality and discuss its range of applicability. Moreover, we give examples of applications in both elementary particle/nuclear physics and condensed matter physics. The examples presented include the quark-gluon plasma, mesons, quantum phase transitions as well as superfluids and superconductors.

Alle Zuhörer sind ab 17:00 Uhr zum Kaffee vor dem Hörsaal eingeladen.