STARS2017 - 4th Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics / SMFNS2017 - 5th International Symposium on Strong Electromagnetic Fields and Neutron Stars

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Black holes as tools - AdS/CFT and the holographic principle (Lecture II)

Wednesday, 3 May 2017 10:40 (1h 20m)

Modeling matter at high densities, high temperatures, and at large values of the relevant coupling constant(s) is a quite challenging task. In these lectures, we are going to introduce the AdS/CFT correspondence (more generally called gauge/gravity correspondence or holography), which allows us to map challenging quantum problems at strong coupling to classical gravity problems at small curvature values of spacetime. Applications to heavy ion collisions and neutron star physics will be discussed.

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