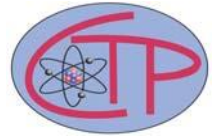




NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
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Putting the String Back in String Theory: a Holographic Adventure

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Namm, Room 823

One of the greatest recent advances in string theory is Gauge-String Duality (or AdS/CFT). This mapping between two very different theories has implications far beyond the realm of mathematical physics. It offers concrete calculational tools with which we can approach systems which are inherently strongly coupled -- like high T_c superconductors, colliding hadrons, and the Quark Gluon Plasma. Most efforts to leverage gauge-string duality focus on the regime in which the string theory can be approximated by a (much more tractable) field theory. This limit is extremely useful, but does not apply to all situations. One particularly interesting example in which string effects *are* important is Regge regime hadronic scattering. In this talk, I will describe an approximation that allows us to include some stringy effects when modeling hadronic physics with gauge-string duality -- as well as its shortcomings and successes when tested against experimental data.