

Colloquium: QCD Meets Gravity in Taipei

Wednesday 11 December 2024 16:00 (1 hour)

The annual QCD Meets Gravity conference is being held the week of December 9-13, 2024 at the National Taiwan University. In this colloquium, I will explain some of the basic ideas being discussed at this conference, highlighting the theory of quantum scattering amplitudes. I will explain the application of these ideas to various topics including elementary-particle collider physics, the relation of gravity with the other forces, and basic questions on gravity and related theories. I will also explain recent developments showing that the quantum nature of gravity is a very useful as a starting point for obtaining state-of-the-art precision predictions for interacting black holes and other compact astrophysical objects.

Presenter: BERN, Zvi (University of California Los Angeles (US))