

Strong interactions from scattering to matter: ^4He atoms and nucleons

Wednesday, 23 September 2026 12:00 (30 minutes)

Effective field theories (EFTs) allow for a systematic description of processes at a particular energy scale, even for strongly interacting systems where no small coupling constants exist. EFTs link scattering and matter, topics of a great tradition of research at BITP. I will discuss two contemporary systems where structure emerges from essentially one parameter: ^4He atoms and nucleons.

Primary author: VAN KOLCK, Ubirajara (European Center for Theoretical Studies in Nuclear Physics and Related Areas)

Presenter: VAN KOLCK, Ubirajara (European Center for Theoretical Studies in Nuclear Physics and Related Areas)

Track Classification: HIGH ENERGY PHYSICS AND NUCLEAR MATTER