SÉMINAIRE du GROUPE THÉORIE



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Nuclear structure and reactions using lattice effective field theory

Effective field theory (EFT) formulated on a space-time lattice provides a model-independent framework for ab initio nuclear structure and reaction calculations. The EFT interactions are rooted in quantum chromodynamics through low energy symmetry constraints. In this talk I present several recent developments in lattice EFT. I present the so called adiabatic projection method that enables elastic and in-elastic reaction calculations. Bound state properties of atomic nuclei such as carbon and oxygen will also be presented.

Mercredi **18 Jui**. 2018, **11h30** *IPN*, Bât. 100, **Salle A015**