

ABSTRACT:

The course aims to introduce the basic tools to deal with strongly coupled quantum field theories and to discuss some applications to the QCD mesons and to hypothetical extensions of the Standard Model. In particular , we will consider models with a composite Higgs boson.

LIST OF SUBJECTS:

- Exact and broken symmetries
- The chiral Lagrangian
- Basics of large- N_c theories
- The Higgs as a composite pseudo-Nambu-Goldstone boson