Seminář ÚJF AV ČR

Peter C. Bruns

Chiral symmetry constraints and their importance for hadron physics

An important feature of Quantum Chromodynamics (QCD) is given by a spontaneously broken approximate symmetry called ``chiral symmetry''. In my talk, I will explain how this (approximate) symmetry is implemented in the low-energy effective field theory of QCD (chiral perturbation theory), and how it puts constraints on theoretical models for hadron-hadron interactions. A recent application to kaon-nucleon dynamics in the threshold region will be discussed in some detail. Besides, I will also shortly discuss some applications to recent results of Lattice QCD.

Seminář proběhne v anglickém jazyce ve čtvrtek 30. ledna 2020 v 10:00 v zasedací místnosti ÚJF AV ČR.