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Chiral extrapolation of nucleon structure observables

Abstrakt

I discuss the application of Baryon Chiral Perturbation Theory (BChPT) to lattice data for quantities relevant for the understanding of the structure of the nucleon. In the discussion I will mainly focus on the isovector quark momentum fraction in the nucleon. A recent high-statistics data set for this quantity, generated in Regensburg, is examined in detail, and I will propose a new perspective on the use of BChPT for chiral extrapolations in future lattice simulations.

Seminář se koná v pátek 5. 12. 2014 v 10:30 hod. v seminární místnosti OTF ÚJF Řež

A. Cieplý/otf