

## Renormalization and power counting of chiral nuclear forces

*Sunday, 27 October 2013 18:00 (20 minutes)*

While applications of chiral perturbation theory (ChPT) to low-energy mesonic and meson-baryon systems have been understood very well and have led to fruitful results in explaining related phenomenology, the nonperturbative nature of low-energy nuclear physics very much obscures the way to implement a ChPT-based, model-independent effective theory for few-nucleon systems. Despite a couple of decades of endeavor, there yet exists a consistent chiral nuclear theory that is widely accepted. I will discuss our efforts to develop such a theory, emphasizing the constraints on power counting imposed by renormalization-group invariance.

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