Nonperturbative Chiral Extrapolations

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This talk will present an overview of the general strategy for the chiral extrapolation of hadronic observables. The cornerstone of the approach is the incorporation of established chiral and heavy-quark behavior within a single extrapolation function. I will discuss specific implementations of this strategy for hadron masses, magnetic moments, charge radii and moments of structure functions. In particular, the impact of the finite volume of the lattice on meson-cloud dynamics is explored. Finally, we examine the extent to which differences between quenched and full QCD simulation results can be attributed to differences between the one-loop meson dressings of quenched and full chiral perturbation theory.