

APR08-2008-000463

Abstract for an Invited Paper
for the APR08 Meeting of
the American Physical Society

Hadron Physics Computations in Lattice QCD

COLIN MORNINGSTAR, Carnegie Mellon University

Progress in extracting excited-state baryon and mesons masses in lattice QCD using large sets of spatially-extended operators is presented. The use of stochastic estimates of all-to-all quark propagators with variance reduction techniques is described. Such techniques are crucial for incorporating multi-hadron operators into the correlation matrices. The current status of form factor and structure function computations is also reviewed.