Abstract for an Invited Paper for the DNP08 Meeting of The American Physical Society

Recent Developments in Lattice QCD

MARTIN SAVAGE, University of Washington

Lattice QCD is rapidly evolving toward the calculation of nonperturbative strong interaction observables at the physical quark masses with complete control over systematic uncertainties. I will outline the recent progress that has been made in the field, both at finite and zero temperature. Further, I will present progress in calculating the interactions between hadrons, and present estimates of the computational needs for nuclear physics.