

APR08-2008-001034

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

**The removal of critical slowing down in lattice QCD<sup>1</sup>**

MICHAEL CLARK, Boston University

The quark mass dependence of the computational cost in lattice QCD has proven to be a major obstacle against realistic calculation. I present recent progress in this area, specifically, a new multigrid algorithm which essentially removes this mass dependence.

<sup>1</sup>This work was supported under NSF Grant No. PHY-0427646.