

HAW09-2009-000913

Abstract for an Invited Paper
for the HAW09 Meeting of
the American Physical Society

Lattices and non-perturbative field theory¹

MICHAEL CREUTZ, Brookhaven National Laboratory

To introduce this session I discuss some of the historical circumstances that drove us to use the lattice as a non-perturbative regulator. This approach has had immense success, convincingly demonstrating quark confinement and obtaining crucial properties of the strong interactions from first principles.

¹Supported under contract number DE-AC02-98CH10886 with the U.S. Department of Energy.