Abstract Submitted
for the DNP13 Meeting of
The American Physical Society

Baryon Resonance determination from Lattice QCD ROBERT EDWARDS, Jefferson Lab — There has been a resurgence of interest in spectroscopy with a new generation of experiments worldwide, for example BES III, COMPASS, GSI/Panda, and Jefferson Lab's GlueX project as well as CLAS12. Spectroscopy reveals fundamental aspects of hadronic physics. However, the excited spectrum of light quark mesons and baryons is not well determined nor understood. Lattice QCD is quite amenable to such non-perturbative studies. Recent calculations have determined a version of the highly excited spectrum of baryons with zero and non-zero strangeness. Current efforts are aimed at determining the resonance structure of such states. I will report on these recent calculatuions and outline methods that are used for resonance parameter determination from the lattice.

Robert Edwards
Jefferson Lab

Date submitted: 21 Jun 2013 Electronic form version 1.4