

Abstract Submitted  
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**Evidence for a Bound H-dibaryon from Lattice QCD<sup>1</sup>** MARTIN SAVAGE, University of Washington, NPLQCD COLLABORATION — The NPLQCD lattice collaboration finds evidence for the existence of a bound H-dibaryon at a pion mass of  $m_\pi \sim 389$  MeV. Using the results of Lattice QCD calculations performed on four ensembles of anisotropic clover gauge-field configurations, with spatial extents of  $L \sim 2.0, 2.5, 3.0$  and  $3.9$  fm at a spatial lattice spacing of  $b_s \sim 0.123$  fm, an H-dibaryon bound by  $B = 16.6 \pm 2.1 \pm 4.6$  MeV at a pion mass of  $m_\pi \sim 389$  MeV is found. I will discuss this calculation and its results.

<sup>1</sup>on behalf of the NPLQCD collaboration

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