Evidence for a Bound H-dibaryon from Lattice QCD\textsuperscript{1} 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.

\textsuperscript{1}on behalf of the NPLQCD collaboration

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