

Abstract Submitted  
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**Baryons in a light-front approach**<sup>1</sup> ANJI YU, Iowa State Univ, YANG LI COLLABORATION, JAMES P. VARY COLLABORATION — We present a model for baryons based on light-front holography. The effective 3-body Hamiltonian consists of a transverse confining interaction based on the AdS/QCD soft-wall model and a longitudinal confining interaction recently applied to the meson system [1]. We analyze the mass spectrum of nucleons and use the obtained ground-state wave functions to calculate observables such as the electromagnetic form factor and the charge radius. We also compare the model results with experiments and results of holographic QCD. [1] Y. Li, P. Maris, and J.P. Vary, Phys. Rev. D**96**, 016022 (2017); arXiv:1704.06968

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