

Abstract Submitted  
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**Studies of the residual gas composition in ALPHA using an autoresonant-spectrometric method<sup>1</sup>** MARCELO BAQUERO-RUIZ, UC Berkeley, ALPHA COLLABORATION — Knowledge of the residual gas composition in the ALPHA experimental apparatus is important in our studies of antihydrogen and nonneutral plasmas. Experiments done using autoresonant ion extraction from an electrostatic potential well have made it possible to study the vacuum in our trap through comparison with computer simulations. Here we report our findings after the 2011 experimental run in ALPHA.

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