

Abstract Submitted  
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**Antihydrogen Production in a Paul Trap**<sup>1</sup> GUY GEYER, REINHOLD BLUMEL, Wesleyan University — We investigate the dynamics of anti-hydrogen production within a Paul trap through computational means with the intent to develop a strategy for confining the anti-atom for further experimentation. We obtained first preliminary results on the transient production of anti-hydrogen. We present these results, discuss the experimental implementation of our system, and suggest ways to lengthen the lifetime of anti-hydrogen in the trap.

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