

Abstract Submitted  
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**Search for exotic same sign dilepton signatures in p-p collisions at  $\sqrt{s} = 8\text{TeV}$  with the ATLAS detector** FIONNBARR O'GRADY, University of Arizona — We present the results of a search for exotic processes involving a final state containing a same sign dilepton pair using data from the ATLAS detector collected in 2012 at  $\sqrt{s} = 8\text{TeV}$ . The analysis is optimized for a variety of beyond the standard model signals including pair production of down type heavy quarks ( $b'$ ) and single and pair production of heavy top quark partners ( $T_{5/3}$ ). Progress towards establishing a signal or producing 95% CL limits on the production cross section are reported.

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