

Abstract Submitted  
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**A Search for Slow Massive Object Pairs (SMOPs) at the Large Hadron Collider**<sup>1</sup> ETHAN CANNAERT, University of California, Davis — In the study of jets at the Large Hadron Collider, it is advantageous to make use of alternate event reference frames in order to elucidate the kinematics of highly complex events. Such techniques are a powerful tool for obtaining a coherent view of the underlying physics in these events, and can be used to look for new particles and new physics. In particular, boosting into certain reference frames is a useful tool for studying slow massive object pairs (SMOPs). Using data from the CMS experiment at the Large Hadron Collider and the technique described above, a search for such particles is conducted.

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