

Abstract Submitted  
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**Identifying Milky Way Stellar Populations Through Kinematics  
Derived from Catalog Data** BRANDON SANTANA-NOLAN, TAYLOR SPOO,  
KENNETH CARRELL, JUSTIN BANKERT, Angelo State Univ — The GAIA  
mission, launched in 2013, will provide the precise position, distance, and motion  
on the sky for an unprecedented number of stars in the Milky Way (MW). The  
first set of data from the mission was released in 2016 and astronomers are already  
updating measurements and making discoveries with the new information. We have  
cross-matched this photometric catalog with the spectroscopic surveys of RAVE,  
SDSS, and LAMOST to provide stellar parameters and radial velocities. With this  
combined dataset we are able to compute orbits for the stars and can isolate various  
stellar populations to study properties of our Galaxy. We will present our catalog  
and method, as well as show orbital properties of different MW populations.

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