

Abstract Submitted  
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**Investigating the Intracluster Dynamics of h and chi Persei** CHAD BYERS, ANN BRAGG, Marietta College — The two young open clusters h and chi Persei are in close proximity to each other and are of roughly the same age. While h and chi Persei are extremely similar, high mass stars are more centrally concentrated in h Persei than in chi Persei. This difference raises questions about the dynamical timescales of and primordial conditions within the clusters. Radial velocity measurements would help distinguish which of these two effects is most likely responsible for the observed mass segregation. This poster presentation will demonstrate the need for such observations, characterize the needed observations, and outline preparations currently underway to obtain the observations.

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