1067-05-2312 Amin Bahmanian and Dan Roberts* (dpr0003@auburn.edu), Dept. of Mathematics and Statistics, Auburn, AL 36849-5310. On Hyperstar Decompositions of Hypergraphs. A hypergraph $G = (X, \mathcal{E})$ is a hyperstar with center C if $C \subseteq \bigcap_{E \in \mathcal{E}} E$. The size of G is $|\mathcal{E}|$ and we say that G has center size |C|. We find necessary and sufficient conditions for complete uniform hypergraphs and complete hypergraphs to be decomposed into $S_{m_1}, \ldots, S_{m_\ell}$ where S_{m_i} is a hyperstar of size m_i with center size 1. (Received September 22, 2010)