Sabrina Allen* (allen18@illinois.edu), Jelsi Bolt, Ryan C. Bunge, Scott Burton and Saad I. El-Zanati. On 2-fold $G$-designs where $G$ has order at most 4 and edge-multiplicity 2.

For a positive integer $k$, let $2K_k$ denote the 2-fold complete mutigraph of order $k$. If $G$ is a bipartite subgraph of $2K_4$, we find necessary and sufficient conditions for the existence of $G$-decompositions of $2K_n$. We also report on some results when $G$ is tripartite. (Received September 22, 2011)