

## Decompositions of Complete Multigraphs into Small Tripartite Multigraphs

Melanie Chwee, Westinghouse College Prep; Alana Cooper\*, University of Tennessee; Saad El-Zanati, Illinois State University; Daniel Roberts, Illinois Wesleyan University

Let  $G$  be a multigraph obtained by doubling 3 distinct edges of the paw graph ( $K_3$  with a pendant edge). By  ${}^\lambda K_n$  we mean the  $\lambda$ -fold complete multigraph of order  $n$ . We investigate necessary and sufficient conditions on  $n$  and  $\lambda$  for the existence of a  $G$ -decomposition of  ${}^\lambda K_n$  for each of the three possibilities for  $G$ .

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