

1079-05-439

Joseph R Chaffee* (chaffjr@auburn.edu) and **Chris Rodger**. *K_3 -decompositions of $K(m, n, \lambda_1, \lambda_2)$.*

Let $K(m, n, \lambda_1, \lambda_2)$ be a graph with two parts, M and N , with $|M| = m$ and $|N| = n$. For each pair of vertices, there are λ_1 edges between them if they are in the same part and λ_2 edges between them otherwise. We discuss necessary and sufficient conditions for a K_3 -decomposition of $K(m, n, \lambda_1, \lambda_2)$. (Received January 18, 2012)