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Decomposing λK_v into stars

It is known exactly when the complete multigraph λK_v can be decomposed into m -stars (Yamamoto et al., 1975 and Tarsi, 1979). If $\lambda = 1$ this result has been extended to decompositions of the complete graph into stars of arbitrary specified sizes m_1, \dots, m_t (Lin and Shyu, 1996). It is natural to ask when λK_v can be decomposed into stars of arbitrary specified sizes. It turns out that this question doesn't admit an easy answer. In this talk we present some of our initial findings on this problem.

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