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Cycle decompositions of complete multigraphs

The multigraph version of Alspach's problem on cycle decompositions of complete graphs is to determine for each λ and n , the set of all lists m_1, m_2, \dots, m_t such that there exists a decomposition of the complete multigraph of order n and multiplicity λ into t edge-disjoint cycles of lengths m_1, m_2, \dots, m_t . Some results on this problem will be discussed, including the solution to the problem in the case where all the cycles have the same length. This is joint work with Darryn Bryant, Daniel Horsley and Ben Smith.