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Embedding Connected Factorizations

An (r_1, \dots, r_q) -factorization of the complete λ -fold h -uniform m -vertex hypergraph λK_m^h is a partition of the edges of λK_m^h into F_1, \dots, F_q such that each color class F_i is r_i -regular and spanning. We show that for $n \geq hm$, the obvious necessary conditions that ensure that an (r_1, \dots, r_q) -factorization of λK_m^h can be extended to a connected (s_1, \dots, s_k) -factorization of λK_n^h are also sufficient. This is joint work with Anna Johnsen (Illinois State) and Stefan Napirata (Universität Ulm).