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Regular self-complementary uniform hypergraphs

A k-uniform hypergraph (V, E) is said to be self-complementary if it is isomorphic to its complement $(V, V^{(k)} - E)$, and t-subset-regular if every t-subset of V lies in the same number of edges. In this talk, we discuss necessary and sufficient conditions on n, k, and t for there to exist a t-subset-regular self-complementary k-uniform hypergraph of order n.