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3-Uniform Friendship Hypergraphs

3-Uniform Friendship Hypergraphs by C. P. (Ben) Li, N. Singhi and G.H.J. van Rees

Sos defined the friendship property for 3-uniform hypergraphs. For every three vertices, x , y and z there exists a unique vertex w such that xyw , yzw and xzw are all edges in the 3-hypergraph. We improve the bounds on 3-uniform friendship hypergraphs. We prove that the 3 known hypergraphs on 16 points are geometrical and that there are no others.