

Embedding Hypertrees into Steiner Triple Systems

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In this paper we are interested in the following question: Given an arbitrary Steiner triple system S on m vertices and any 3-uniform hypertree T on n vertices, is it necessary that S contains T as a subgraph provided $m \geq (1 + \mu)n$? We show the answer is positive for a class of 3-trees and conjecture that the answer is always positive.

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