

Maximum packings of complete 3-uniform hypergraphs into a 2-regular hypergraph

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In this talk we investigate strategies for finding hypergraph decompositions and, more generally, maximum packings of complete 3-uniform hypergraphs. In particular, we apply these strategies to finding decompositions and maximum packings with the 2-regular 3-uniform hypergraph with vertex set $\{a, b, c, d, e, f\}$ and edge set $\{\{a, b, c\}, \{b, c, d\}, \{d, e, f\}, \{e, f, a\}\}$.

This is joint work with Amy Bigelow, Saad El-Zanati, Josette Green, Frances Haller, Kailee Kyger, and Destiny Salcido.

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