

# Uniform hypergraphs without regular subgraphs

Jie Hàn (USP)

## **Resumo/Abstract:**

A graph is regular if all vertices have the same degree. Which graphs do not contain any 2-regular subgraphs? The answer is simple – they are forests. Mubayi and Verstraëte studied the maximum number of edges in a hypergraph without any 2-regular subgraphs. They obtained the exact solution for  $k$ -uniform hypergraph when  $k$  is even and made a conjecture on odd  $k$ . I will present a solution of their conjecture and some related questions.