## Some results on spectral radius of hypergraphs

## Yuan Hou

Fuzhou University

## Abstract

Spectral extremal hypergraph theory via tensors is the subset of extremal problems, where invariants are based on the eigenvalues or eigenvectors of a hypergraphs. The most natural such invariant is the maximal absolute value of the eigenvalues of the adjacency tensor of a hypergraph, called its spectral radius. In this talk, we present some recent results about the spectral analogue of a hypergraph extremal results via tensors, including codegree, walks and transversal number. (Join work with An Chang).

Keywords: hypergraph; tensor product; spectral radius; walk; transversal number

E-mail address: houyuan@fzu.edu.cn