

Discrete Mathematics Seminar

Time: Friday, 28 September 2012, 1:30–2:30 PM
Location: 238 Derrick Hall
Title: Hypergraphic Degree Sequences
Speaker: Dr. Xiaofeng Gu, Mathematics Department

Abstract:

An integral sequence $d = (d_1, d_2, \dots, d_n)$ is **hypergraphic** if there is a simple hypergraph H with degree sequence d , and such a hypergraph H is called a **realization** of d . A sequence d is **r -uniform hypergraphic** (or for short, **r -graphic**) if there is a simple r -uniform hypergraph with degree sequence d . In this presentation, several problems related to characterizations and realizations of r -graphic sequences are discussed. In particular, the characterization of an r -graphic sequence with a k -edge-connected realization is given.