

RYERSON UNIVERSITY
DEPARTMENT OF MATHEMATICS
GRAPHS AT RYERSON (G@R) SEMINAR

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Date: Monday, January 30, 2017

Time: 10am

Location: ENG 210

***f*-Pyramidal Steiner Triple Systems**

Abstract:

A design is called f -pyramidal when it has an automorphism group fixing f points and acting sharply transitively on the others.

We consider the problem of determining the set of values of v for which there exists an f -pyramidal Steiner triple system of order v . Although this problem has been deeply investigated when $f = 1$, it remains open for a special class of values of v . For the next possible value of f , which is $f = 3$, we provide a complete solution. However, for greater values of f this problem remains widely open.

In this talk, I will present the most recent results on this subject.

ALL FACULTY, STAFF, STUDENTS AND GUESTS ARE WELCOME TO ATTEND