

UW Department of Mathematics

Rainwater Seminar

DATE: Tuesday, January 22nd, 2008

TIME: 2:30pm

PLACE: Padelford C-401

SPEAKER: Jeong-Yup Lee, Korean Institute for Advanced Study

TITLE: The Meyer Property on Substitution Point Sets

ABSTRACT:

Meyer sets have appeared a lot in the study of long-range aperiodic order and quasicrystal theory, since they encompass an important level of order. A Meyer set is a discrete point set in \mathbb{R}^d which is relatively dense and whose difference vectors form a uniformly discrete set. In this talk, we look at various results on Meyer sets from different aspects. We consider substitution point sets and determine equivalent conditions for the Meyer property.