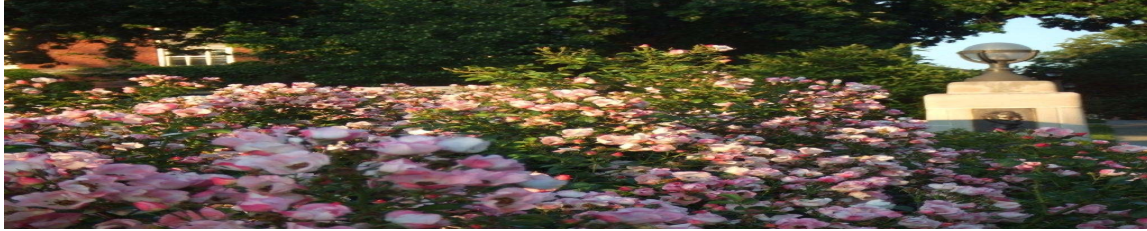


ISU ALGEBRA SEMINAR



FALL 2017 SCHEDULE

Thursdays, 12:00 PM-12:50 PM in Williams Hall, room 21

October 19, 2017 and October 26, 2017

Speaker: Zhao, Wenhua

Talk title: Recent Developments on Mathieu Subspaces: I-II

Abstract: In the first talk we will discuss the definition, motivations and also some examples and open problems of Mathieu subspaces. In Talk II we will focus on the LFED and LNEC conjectures, which claim, respectively, that the image of a locally finite derivation or \mathcal{E} -derivation of an algebra \mathcal{A} over a field \mathbb{k} of characteristic zero is a Mathieu subspace of \mathcal{A} and that every locally nilpotent derivation or \mathcal{E} -derivation of \mathcal{A} maps an ideal of \mathcal{A} to a Mathieu subspace of \mathcal{A} , where an \mathcal{E} -derivation of \mathcal{A} is a \mathbb{k} -linear endomorphism of \mathcal{A} of the form $\mathcal{I}d_{\mathcal{A}} + \mathcal{F}$ for some \mathbb{k} -algebra endomorphism \mathcal{F} of \mathcal{A} .