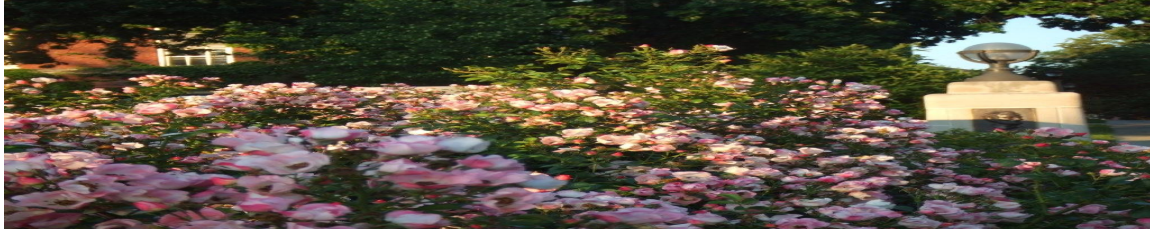


ISU ALGEBRA SEMINAR



FALL 2017 SCHEDULE

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

September 28, 2017

Speaker: Lucian Ionescu

Talk title: Quaternions, Octonions and Their Applications

Abstract: Rotations are done "properly" with complex numbers, in 2D, quaternions in 3D (aeronautics, robotics etc.), but "who ordered Octonions"? After a review of the basics, the key not so visible ingredient is revealed: the braiding! Applications to classical groups and physics (Pauli and Dirac Matrices), will be briefly mentioned.