

ISU ALGEBRA SEMINAR



FALL 2017 SCHEDULE

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

October 5, 2017

Speaker: Neil Christensen, ISU Physics Department

Talk title: Algebras in Particle Physics-Part II

Abstract: Algebras play a fundamental role in particle physics. We will take a tour of the foundations of quantum field theory that involve algebras beginning with the algebras of spacetime. We will discuss problems with field theory and how they are connected to algebras. We will discuss new insights into S-Matrix elements (scattering amplitudes) that involve algebras and bypass fields altogether. Hopefully, by the end, we will have a better global picture of the role of algebras in particle physics and their role in current developments.