

ISU ALGEBRA SEMINAR



Date: Wednesday, November 28th, 2018

Time: 10:00 AM-10:50 AM

Location: STV 310

Speaker: Lucian Ionescu

Talk Title: The Platonic Universe

Abstract: The Platonic solids and their groups of symmetry are ubiquitous in Nature and Science. We present their history and some applications, followed by deeper connections known as the ADE-classification, relating them with the exceptional Lie algebras (and hence the sporadic groups). The amazing thing is: quark flavors could correspond to these finite subgroups of $SU(N)$, $N=2,3,4$, so far referred to as "vertical gauge groups".

This would entitle us saying our Universe is Platonic; that it's exceptional, we already knew that 😊.

