

ISU Algebra Seminar



Title: Group theoretic characterization of Gaussian binomial coefficients

Speaker: Sunil Chebolu (ISU)

Time: 1:00 pm - 1:50 pm on Thursday (08/27/20)

Zoom Meeting ID: 949 8153 6573, Passcode: 067882

Abstract: Combinatorial and number theoretic characterizations of Gaussian binomial coefficients and their sum is well-known. In this talk I will present a group theoretic characterization of these coefficients and their sum which is not as well known. Our approach is based on maximal subgroups of p -groups and the Frattini subgroups. The talk should be accessible to all mathematics majors in MAT 236 and above.

Bio: Sunil Chebolu was trained in mathematics and statistics at the Indian Statistical Institute in India. After earning his doctorate in mathematics at the university of Washington, he held a 3-year postdoctoral position at the University of Western Ontario Canada. He joined ISU in 2008. He has a broad range of interests in mathematics and related areas including astronomy, music, games, and computing.