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## **Discrete Mathematics Seminar**

Time: Friday, March 9, 2018, 2:15-3:15 PM  
Room: 237 Derrick Hall  
Title: A New Characterization of Some Finite Almost Simple Groups  
Speaker: Dr. Yanxiong Yan, Department of Mathematics, Texas State University

### Abstract:

It is a well-known fact that characters of a finite group can give important information of the structure of the group. Also it was proved by the third author that a finite simple group can uniquely determined by its character table. In this paper, the authors attempt to investigate how to characterize a finite almost simple group by using less information of its character table, and successfully characterize the automorphism groups of Mathieu groups and simple K3-groups, some Sporadic simple groups and some Lie simple groups by their orders and at most two irreducible character degrees of their character tables.