TEXAS STATE UNIVERSITY

The rising STAR *of Texas*

Discrete Mathematics Seminar

Time: Friday, February 28, 2020, 2:15 - 3:15 PM
Location: 330 Derrick Hall
Title: On the widths of finite groups
Speaker: Dr. Yong Yang, Department of Mathematics, Texas State University

Abstract: Let G be a finite group, $\pi(G)$ the set of prime factors of $|G|$ and $\pi_e(G)$ the set of element orders in G. We call that $d = |\pi(G)|$ the width of the order of G, and $n = \max\{|\pi(k)| \mid k \in \pi_e(G)\}$ the width of the spectrum of G. In 1981, we discussed the case of $n = 1$, that is, the finite groups with elements of prime power orders (CP-groups) in a paper. After we review this article, we will prove some new results and pose some new interesting problems related to the Huppert's ρ-σ conjecture.