COMBINATORICS
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Stability and applications of quadrilaterals

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Abstract: A famous theorem of Furedi states that for any integer $q \geq 15$, any C_4-free graph on $q^2 + q + 1$ vertices has at most $q(q+1)^2/2$ edges. It is well-known that this bound is tight for infinitely many integers q, by polarity graphs constructed from finite projective planes. In this talk, we will present a stability result of Furedi's theorem and then discuss its applications on extremal numbers of C_4. Joint work with Jialin He and Tianchi Yang.

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