

Some algebraic and combinatorial questions
related to finite geometries.

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In this talk we present several new algebraic and combinatorial questions, and survey related results and work in progress. The questions are motivated both by the extremal graph theory and by finite geometries. One of them is the existence of new generalized quadrangles of type (q, q) , where q is an odd prime power; others are about the number of k -polygons and other configurations in projective planes.