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Extremal and D-Extremal ideals and their algebraic properties

Extremal ideals are square-free monomial ideals which model or bound the algebraic properties of all square-free monomial ideals and their powers. A refinement of this concept is the notion of D-extremal ideals, which also takes into account the divisibility relations between the generators of the ideals. This talk will be an overview of what extremal ideals and what kinds of questions can be answered by them.