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Title: The Minimal Resolution Conjecture (MRC) for points on the cubic scroll

Abstract:

The MRC (as it was formulated by Lorenzini in the case of the projective space and by Mustata for a general variety) claims that the Betti numbers of the minimal graded resolution of a general set of points on a projective variety are as small as possible. This conjecture, in the two dimensional case, has been proven for the projective plane, the quadric and the general cubic and quartic surfaces.

The goal of this talk is to explain our approach using techniques of liaison theory (already exploited in other cases) to prove MRC for certain cardinalities of points on cubic scrolls.