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Classifying Determinantal Presentations of Hypersurface Singularities

We discuss how to effect the classification in the title by means of liftings of maximal Cohen–Macaulay modules of rank one from low-dimensional singularities. We present a simple algorithm and discuss in some detail the case of the A_3 -discriminant, treated in Hovinen’s thesis.

Joint work with Bradford Hovinen, Univof Toronto.