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Noncommutative desingularization of orbit closures for some representations of \$GL_n\$

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(Submitted on 2 Apr 2012)

We describe noncommutative desingularizations of determinantal varieties, determinantal varieties defined by minors of generic symmetric matrices, and pfaffian varieties defined by pfaffians of generic anti-symmetric matrices. For maximal minors of square matrices and symmetric matrices, this gives a noncommutative crepant resolution. Along the way, we describe a method to calculate the quiver with relations for any non-commutative desingularizations coming from exceptional collections over partial flag varieties.

Comments: 40 pages

Algebraic Geometry (math.AG); Commutative Algebra Subjects:

(math.AC); Representation Theory (math.RT)

Cite as: arXiv:1204.0488 [math.AG]

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