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Ragnar-Olaf Buchweitz, Graham J Leuschke* (gjleusch@math.syr.edu) and **Michel Van den Bergh**. *Non-commutative desingularization of determinantal varieties.*

We construct non-commutative resolutions of determinantal varieties defined by arbitrary-size minors of a generic matrix. The resolution can be presented as the path algebra of a quiver with relations, where the underlying graph of the quiver is an ideal in the Young lattice of partitions. (Received February 13, 2012)