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Dorian Goldfeld* (goldfeld@columbia.edu), Columbia University, Department of Mathematics, New York, NY 10027. *Rank Lowering Operators on $GL(n)$* . Preliminary report.

Rank lowering operators are linear operators sending automorphic forms on $GL(n)$ to $GL(m)$ with $m < n$. We review their construction and discuss applications. (Received February 23, 2007)