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Sean O'Rourke and **Noah N. Williams*** (williamsnn@appstate.edu), Department of Mathematical Sciences, 121 Bodenheimer Dr., Appalachian State University, Boone, NC 28608.

Partial linear eigenvalue statistics for i.i.d. random matrices.

Let X_n be an $n \times n$ matrix with independent and identically distributed entries whose moments match those of the entries of the real or complex Ginibre ensemble to third order. We study the asymptotic fluctuations of the partial linear eigenvalue statistics $\sum_{j=1}^{n-k} f(\lambda_j)$, where f is a test function, $\lambda_1, \dots, \lambda_n$ are the eigenvalues of X_n/\sqrt{n} , and the contributions of k randomly selected eigenvalues are removed from the sum. We consider the cases where k is finite and where $\min\{k, n - k\}$ tends to infinity. (Received September 16, 2019)