1155-60-61 **Indrajit Jana***, 1027 Wachman Hall, Department of Mathematics, 1805 North Broad Street, Philadelphia, PA 19122. *CLT for non-Hermitian random band matrices with variance profiles.*

We show that the fluctuations of the linear eigenvalue statistics of a non-Hermitian random band matrix of bandwidth $b_n$ with a continuous variance profile $w_\nu(x)$ converges to a $N(0, \sigma_f^2(\nu))$, where $\nu = \lim_{n\to\infty}(2b_n/n)$. We obtain an explicit formula for $\sigma_f^2(\nu)$, which depends on the test function, and $w_\nu$. When $\nu = 1$, the formula is consistent with Rider, and Silverstein (2006). We also compute an explicit formula for $\sigma_f^2(0)$. We show that $\sigma_f^2(\nu) \to \sigma_f^2(0)$ as $\nu \downarrow 0$. (Received December 09, 2019)