Babu, Gutti Jogesh (1-PAS); Singh, Kesar (1-RTG)

A note on Edgeworth expansions for the lattice case.


From the summary: “The one-term Edgeworth expansion for the standardized sample mean of \( n \) independent lattice random vectors when perturbed by a random variable \( (1/\sqrt{n})U \) is shown to be the same as in the strongly nonlattice case, where \( U \) is a bounded random variable depending only on a basis of the associated minimal lattice, and some applications of the result to the Studentized statistics are given.”

_D. N. Shanbhag (4-SHEF-S)