

# A generalized central limit theorem in infinite ergodic theory - Errata

**Theorem 1.12:** the renormalization sequence used is false. Equation (1.14) is to be replaced by:

$$\sqrt{\frac{1}{N} \left( \sum_{k=0}^{N-1} \frac{1}{\psi(k)} \right)} \sum_{i=0}^{N-1} f \circ T^i \rightarrow \sigma(f)\mathcal{N},$$

**Proposition 4.2:** the renormalization sequence used is false. Equation (4.2) is to be replaced by:

$$\frac{1}{N} \left( \sum_{k=0}^{N-1} \frac{1}{\psi(k)} \right) \sum_{i=0}^{N-1} f \circ T^i \rightarrow \int f \, d\mu,$$

otherwise, the renormalization sequence grows faster than  $N$ , which contradicts Hopf's ergodic theorem.