

On the distribution of Kronecker sequence

Nikolay Moshchevitin

Starting with an example by Poincaré related to sums of the type $\sum_{k=0}^{t-1} f(\alpha k + x)$ where f is a continuous function and α is an irrational number, we give a brief survey on the distribution of the sequence $\{\alpha k\}$ as well as its multidimensional generalisations. We will discuss recent results related to the paper

N. Moshchevitin, On an example by Poincaré and sums with Kronecker sequence, *Monatsh. Math.* 206:1, 195-216 (2025)

and recent preprint by A. Chebotarenko

A. Chebotarenko, Liminf-results for sums with Kronecker sequence, Preprint, arXiv:2502.19636 (2025).