Denis Shatskov, **Oscillation of irrational measure function in the multidimensional case.**

Let Θ is a matrix of size $m \times n$. We denote the irrational measure function, as

$$\psi_\Theta(t) = \min_{\substack{x_i \in \mathbb{Z} \\ 1 \leqslant \max\limits_{1 \leqslant i \leqslant n} |x_i| \leqslant t}} \max_{1 \leqslant j \leqslant m} \|\theta_j^1 x_1 + \ldots + \theta_j^n x_n\|.$$

We proved that difference function $\psi_\Theta - \psi_{\Theta'}$ for almost all pairs Θ, Θ' in cases $m = 1$, $n = 2$ or $m \geqslant 2$ and $n = 1$ changes its sign infinity many times as $t \to +\infty$.