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Inhomogeneous approximation revisited

We will discuss classical and modern results related to linear inhomogeneous Diophantine approximation. We recall the history of the problem from Kronecker's approximation theorem, transference theory developed by Khintchine, Jarník and Cassels to recent results concerning grids of lattices. In particular we explain a new theory of k -divergence lattices which was introduced recently by U. Shapira and discuss the results of our recent paper N. Moshchevitin, A. Rao, U. Shapira "Badly approximable grids and k -divergent lattices", arXiv:2402.00196.