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## Integral norm discretization and related problems

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### Abstract

In this talk, I will present a recent joint work with Prymak, Temlyakov and Tikhonov on the problem of replacing an integral norm with respect to a given probability measure by the corresponding integral norm with respect to a discrete measure for elements of finite dimensional spaces. I will also discuss discretization of the uniform norm of functions from a given finite dimensional subspace of continuous functions, with special focus on the case of the multivariate trigonometric polynomials with frequencies from a finite set with fixed cardinality.

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