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Interpolation sets in topological abelian groups

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According to S. Hartman and C. Ryll-Nardzewski, a subset S of a topological group G is an I_0 (or interpolation) set when every bounded function defined on S can be interpolated by an almost periodic function of G . Understanding the properties of interpolation sets is a major topic in the theory of locally compact abelian (LCA) groups, where there still are many unsolved questions, even for discrete abelian groups. In this talk, we will report on some recent findings about the properties and existence of interpolation sets for topological abelian groups. Some applications to the Bohr compactification of some topological groups will also be discussed.

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