



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

ON THE BOREL COMPLEXITY OF CHARACTERIZED SUBGROUPS

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Abstract

Every sequence of integers (u_n) determines a subgroup of the (additively written) circle group T , formed by all elements x of T such that $u_n x$ converges to 0. Subgroups of this form have been studied in Analysis (in connection to trigonometric series) and Diophantine approximations. This notion can be appropriately extended to the case of arbitrary compact abelian groups in place of T . These subgroups are always Borel subsets. The aim of the talk is to discuss their Borel complexity.

Date : Thursday, January 30, 2014

Time: 15:00

Place: IMBM Seminar Room, Boğaziçi University South Campus