Productly linearly independent sequences

Jaroslav Hančl, Katarína Korčeková and Lukáš Novotný

Abstract

The talk introduce the two new concepts, productly linearly independent sequences and productly irrational sequences. Also will be shown a criterion for which certain infinite sequences of rational numbers are productly linearly independent. As a consequence we obtain a criterion for the irrationality of infinite products and a criterion for a sequence to be productly irrational.