On structure of all real valued sequences uniformly distributed in

$$[-1/2,1/2]$$

Gogi Pantsulaia

Abstract

In the paper **[Inter. J. Sci. Tech., 4(3) (2013), 21--27],** it was shown that μ-almost every element of $\mathbf{R}^\infty$ is uniformly distributed in $[-1/2,1/2]$, where μ denotes Yamasaki-Kharazishvili measure in $\mathbf{R}^\infty$, for which $\mu([-1/2,1/2]^\infty) = 1$. In the present talk we show that the same set is shy in $\mathbf{R}^\infty$. We show also that In Solovay model the set of all real valued sequences uniformly distributed modulo 1 in $[-1/2,1/2]$ is prevalent set in $\mathbf{R}^\infty$.