Scaled entropy and metric dynamics; recent achievements

Anatoly Vershik

Scaled entropy generalizes the known entropy Shannon-Kolmogorov was proposed by the speaker in the early 2000s, but, as it turned out recently, it was actually guessed by Shannon in the appendices to his classic work, which was not noticed by absolutely all followers. The development of this concept in recent years has been contained in the works of P.Zaritsky, G.Veprev and the author. A detailed review of these authors will be published in the journal "Uspekhi Matematicheskikh Nauk" In V78:3 (2023) under the title "Dynamics of metrics and scaled entropy". In the report an overview of this article and related issues will be presented. This work is carried out as part of a project supported by an RNF grant 21-11-00152

Anatoly Vershik
St. Petersburg Department of Steklov Institute of Mathematics,
St. Petersburg State University,
Institute for Information Transmission Problems

e-mail: avershik@gmail.com