

数論セミナー

日時：2024年1月19日（金）16：40 ～

場所：自然科学系棟 B625 + Hybrid

講演者：斎藤耕太 (筑波大学)

講演題目：

The simple normality of the fractional powers of two and the Riemann zeta function

アブストラクト：

A real number x is called a simply normal number to base b if the base- b expansion of x has each digit $0, 1, \dots, b-1$ appearing with average frequency tending to $1/b$. We do not determine the simple normality of many non-artificial numbers such as π , e , $\log 2$, $\sqrt{2}$, etc. In this talk, we report a relation between the frequency that the digit 1 appears in the binary expansion of $2^{p/q}$ and a mean value of the Riemann zeta function on arithmetic progressions. This is joint work with Yuya Kanado (Nagoya University).

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