

数論セミナー

日時：2017年1月11日（水）10：30 ～ 11：30

場所：自然科学棟 D814

講演者：Yann Bugeaud (Univ. Strasbourg)

講演題目：Around the Littlewood conjecture in Diophantine approximation

The Littlewood conjecture in Diophantine approximation claims that every pair (α, β) of real numbers satisfies

$$\inf_{q \geq 1} q \cdot \|q\alpha\| \cdot \|q\beta\| = 0,$$

where $\|\cdot\|$ denotes the distance to the nearest integer. In 2004, de Mathan and Teulié asked the following analogous question : for a given prime number p , is it true that

$$\inf_{q \geq 1} q \cdot \|q\alpha\| \cdot |q|_p = 0$$

holds for every real number α ? Here, $|\cdot|_p$ denotes the p -adic absolute value normalized such that $|p|_p = p^{-1}$. We present recent results towards the resolution of these two problems, which are still not solved. This survey talk will be accessible to a large audience.

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