

## 数論セミナーのお知らせ

日時: 2024年9月20日(金) 14:00~

場所: D814

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Title: Optimal triangles with badly approximable angles

For irrational numbers in  $(0,1)$ , there is a class of numbers called badly approximable numbers. We are interested in the equation  $\alpha + \beta + \gamma = 1$  where  $\pi\alpha, \pi\beta, \pi\gamma$  are three angles of a triangle and we expect three numbers  $\alpha, \beta, \gamma$  are badly approximable numbers. Such an angle is very famous in phyllotaxis. In general, if the maximum of the partial quotients of  $\alpha$  is small, then the discrepancy becomes small. In this study, not only three angles are badly approximable numbers, but we also wish to optimize the choice so that the partial coefficients are small by lexicographical orderings. This is a joint work with Shigeki Akiyama and Emily R. Korfanty.

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