

Diophantine Approximation, Fractal Geometry and Related topics /
Approximation diophantienne, géométrie fractale et sujets connexes

ID de Contribution: 25

Type: **Non spécifié**

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jeudi 6 juin 2024 17:00 (30 minutes)

Quantitative Khintchine–Groshev theorem on S -arithmetic numbers

In this talk, I would like to introduce two analogs of S -arithmetic generalization of Diophantine approximation problems. One way to obtain quantitative results for Diophantine approximation over the real field is by utilizing Schmidt's counting theorem on the family of expanding Borel sets. We will explore how this approach can be extended to S -arithmetic Diophantine approximation, taking into consideration certain limitations.