

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

ID de Contribution: **18**

Type: **Non spécifié**

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mercredi 5 juin 2024 12:10 (30 minutes)

Counting rational approximations in flag varieties

In the divergence case of Khintchine's theorem, Schmidt obtained an asymptotic formula for the number of rational approximations of bounded height to almost every real number. Using exponential mixing in the space of lattices, we prove versions of this theorem for intrinsic diophantine approximation on quadrics, grassmannians, and other examples of flag varieties.