

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

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Khintchine's Theorem - one hundred years on!

Khintchine's Theorem (1924) on rational approximations to real numbers is one of the most beautiful applications of the Borel-Cantelli lemma outside of probability theory. In this talk I will discuss problems and progress concerning inhomogeneous generalisations of this classical result, including the Duffin-Schaeffer Conjecture in the inhomogeneous setting. This is a joint work with Manuel Hauke and Sanju Velani.