



SCMS Seminar

COUNTING RATIONAL APPROXIMATIONS ON GRASSMANNIANS

Speaker: Rene Pfitscher

University of Science and Technology of China (USTC)

Time: Wednesday, November 26th; 14:00-15:00

Venue: Room 102, SCMS

Abstract:

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. We prove a version of this result for intrinsic Diophantine approximation on Grassmannians. The proof relies on an $L^{1+\epsilon}$ -integrability property of a Siegel transform naturally associated with the Grassmannian, together with the effective single and double equidistribution property of translated orbits of maximal compact subgroups, results of independent interest.