## Exposé court

2 A quantitative Koukoulopoulos-Maynard theorem in Diophantine approximation Aistleitner, Christoph (TU Graz)

The Duffin-Schaeffer conjecture had been a central open problem in the metric theory of Diophantine approximation for almost 80 years, before finally being settled by Koukoulopoulos and Maynard in 2019. In this talk we present a quantitative version of the Koukoulopoulos-Maynard theorem, which provides an estimate for the typical order of the number of solutions of the Diophantine approximation problem. The proof relies on sieve theory and multiplicative number theory. Joint work with Bence Borda and Manuel Hauke.