

Diophantine inheritance for p -adic measures

SHREYASI DATTA AND ANISH GHOSH

Abstract. In this paper we prove complete p -adic analogues of Kleinbock's theorems [18, 19] on the inheritance of Diophantine exponents for affine subspaces. In particular, we answer in the affirmative (and in a stronger form) a conjecture of Kleinbock and Tomanov [22], as well as a question of Kleinbock [19].

Mathematics Subject Classification (2020): 11J83 (primary); 11J54, 11J61, 37A45 (secondary).