

The distribution of ultrafriable integers

Gérald Tenenbaum*

gerald.tenenbaum@univ-lorraine.fr

The theory of friable integers, i.e. integers free of large prime factors, is a very lively branch of modern number theory. We explore a related structure, that of ultrafriable integers, which are divisible by no prime power exceeding a given limit. While appearing naturally in several applications, the distribution of ultrafriable integers raises interesting methodological questions, which find satisfactory answers using techniques developed in the frame of friable integers.

*Faculté des Sciences, Institut Élie Cartan, B.P. 70239, 54506 Vandoeuvre-lès-Nancy, Cedex, FRANCE.