

Additive Combinatorics
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Dense perfect difference sets of integers

Javier Cilleruelo
franciscojavier.cilleruelo@uam.es
Departamento de Matemáticas
Universidad Autónoma de Madrid
Campus de Cantoblanco, Ctra. de Colmenar Viejo, Km. 15
28049 Madrid
SPAIN

Abstract

We prove that any Sidon set can be modified to get a perfect difference set with similar density. A related problem for dense sets with prescribed representation function is also discussed.

Joint work with Melvyn Nathanson.