## Exposé court

10 New bounds for sets with restricted differences

Arala, Nuno (University of Warwick)

We prove a new upper bound for the size of a set  $A \subseteq \{1, ..., N\}$  which does not contain two different elements a, b for which  $a - b \in h(\mathbb{N})$ , where  $h \in \mathbb{Z}[x]$  is a fixed polynomial. This answers a question of Bloom and Maynard.