Additive Combinatorics
March 30 - April 12, 2006

## $2 A$ and $3 A$

Imre Ruzsa<br>ruzsa@renyi.hu<br>Alfréd Rényi Institute of Mathematics<br>Hungarian Academy of Sciences<br>Reáltanoda u. 13-15<br>H-1053 Budapest<br>HUNGARY


#### Abstract

How large can $3 A$ be, if the cardinalities of $A$ and $2 A$ are known? How large can $A+2 B$ be if $A$ and $A+B$ are known?


