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Jozsef Balog* (jobal@math.uiuc.edu), Mathematics Department, Urbana, IL 61801, and **Hong Liu, Maryam Sharifzadeh** and **Andrew Treglown**. *On problems of Cameron and Erdos*.

In 1990 and 1999, Cameron and Erdos proposed several problems in additive combinatorics. They asked about the number of sum-free sets, number of maximal sum-free sets, number of Sidon sets in $[n]$. Additionally they asked the number of sets in $[n]$ without k -term arithmetic progression. In the talk we survey the recent progress on these questions. (Received September 05, 2015)