

Bilkent University Department of Mathematics

PROBLEM OF THE MONTH

Term: April 2016

Let A_1, A_2, \ldots, A_k be distinct subsets of $\{1, 2, \ldots, 2016\}$ such that for each $1 \le i < j \le k$ the intersection $A_i \cap A_j$ forms an arithmetic progression. Find the maximal value of k.