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Déborah Oliveros* (dolivero@matem.unam.mx), Área de la Investigación Científica, Circuito Exterior, Ciudad Universitaria., Coyacan, 04510 México, Mexico. *Variants on Helly's Theorems over Algebraic Subsets of \mathbb{R}^d* . Preliminary report.

We will discuss some interesting behavior of Helly type theorems over different subsets in \mathbb{R}^d in particular, some extensions of prior work in \mathbb{Z}^d or in $\mathbb{Z}^{d-k} \times \mathbb{R}^k$, etc. as well as consider the situation for some algebraic structures, in particular for arbitrary subgroups of \mathbb{R}^d or for the difference between a lattices and some of its sublattices. (Received August 28, 2016)