On the recognition of $q^*$-Helly hypergraphs

Fábio Protti  
*Universidade Federal do Rio de Janeiro*

A hypergraph $H$ is said to be $(p, q, s)$-Helly when every $p$-wise $q$-intersecting partial hypergraph of $H$ has intersection of size at least $s$. In a work by Tuza, $(2, q, q)$-Helly hypergraphs are called $q^*$-Helly hypergraphs. In this work we investigate the complexity of recognizing this class of hypergraphs.

This is joint work with Mitre C. Dourado and J. L. Szwarcfiter