

# On non-forking spectra

Itay Kaplan

## Abstract

Given a first order theory  $T$ , we consider the function

$$f(\kappa, \lambda) = \sup |\{\text{types over a model } M \text{ of size } \lambda \text{ that do not fork over a submodel of size } \kappa\}|$$

(where  $\kappa \leq \lambda$ ).

This function is called the non-forking spectrum of  $T$  and generalizes the usual stability function. We make some progress towards classifying possible non-forking spectra.