Johdatus stabiilisuusteoriaan
Harjoitus 13

1. Supoose $\kappa > |T|$ is such that for all $n < \omega$ and $f : [\kappa]^n \to 2^{|T|}$ there is $X \subseteq \kappa$ of power κ such that $f \restriction [X]^n$ is constant. Show that if T has a model of power $\geq \kappa$ which omits $p \in S(\emptyset)$, then T has arbitrarely large models which omit p. (To prove the conclusion one does not really need such a large cardinal, $\beth_{(2^{|T|})^+}$ is enought.)

2. Give an example of a theory and a type $p \in S(\emptyset)$ such that T has a model omitting p but not arbitrarely large ones.