

- ▶ ALF ONSHUUS, *On local stability*.

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Work by Haskell, Hrushovski and Macpherson about stable domination in algebraically closed valued fields, showed applications of understanding and using the stable-like “pieces” (types or sorts) within a particular theory. This is a deep break from traditional stability theory (and general classification theory) since the main idea is not to find dividing lines between different theories anymore but instead one tries to find well behaved parts within a particular model. This approach found further applications in joint work with Assaf Hasson where we were able to understand much of the structure of a structure interpretable in an o-minimal theory by understanding independently the stable and the unstable types.

In this talk we will give an introduction to local stability together with the applications in o-minimal theories and in algebraically closed valued fields and explore possible ideas to find definitions for local dependence and local simplicity and properties that one would like to have.