

4th Homework sheet Model Theory

- Deadline: 4 March.
- Submit your solutions by handing them to the lecturer at the *beginning of the lecture at 15:00*.
- Good luck!

Exercise 1 (*50 points*) Show that the theory of $(\mathbb{R}, 0, +)$ has exactly two 1-types and \aleph_0 many 2-types.

Exercise 2 (*50 points*) Give an example of a model which is ω -saturated but not strongly ω -homogeneous.