

**Fall 2023, MATH80510 Topics in Mathematical  
Logic:**

**T-Convexity and Tame Pairs of O-minimal Structures**

**Instructor: S. Starchenko**

In the first part of the course, we will consider results of the papers "T-convexity and tame extensions" by Lou van den Dries and Adam H. Lewenberg, and "T-convexity and tame extensions II" by Lou van den Dries. We assume no prior knowledge of o-minimality; all essential concepts will be explained.

In the second part of the course we will consider some recent applications of tame o-minimal pairs.

If time permits we will also consider tame pairs in various model theoretical settings.

**Prerequisites:** Basic knowledge of model theory