## 1137-57-290 Mauricio Gomez Lopez\* (megomezl@uoregon.edu), 1 Deady Hall, University of Oregon,

Eugene, OR 97403. The homotopy type of the topological cobordism category. Preliminary report. The goal of this talk is to report on the progress of a joint project with A. Kupers in which we aim to prove a topological version of the groundbreaking result of Galatius, Madsen, Tillman, and Weiss which describes the homotopy type of the smooth cobordism category. More specifically, in this talk, I will introduce a cobordism category of topological manifolds and explain how one can prove that its classifying space is weak homotopy equivalent to the infinite loop space associated to a particular Thom spectrum. This talk will also include a brief overview of some of the standard tools from the theory

of topological manifolds, such as smoothing theory and microbundles. (Received February 05, 2018)