

**Database Theory**  
**Winter Term 2013/14**  
Prof. Dr. W. May

## 5. Unit: Well-founded and Stable Semantics

Discussion by 4./6.2.2014

- Exercise 1 (Well-Founded Model)** a) Show that there are non-stratifiable Datalog<sup>-</sup> programs that have a total well-founded model (i.e., no atoms undefined).  
b) Are there non-stratifiable Datalog<sup>-</sup> programs that have a total well-founded model for *all* EDB instances?

**Exercise 2 (Well-Founded Model)** Give an instance of the win-move game that has no total stable model.