

1163-A1-257

**Thomas Pawlaschyk** and **Sven-Ake Wegner\***, University of Hamburg, Germany. *Homework tasks that engage students in conjecturing, refuting and proving.*

In the talk we report on an implementation of discovery-oriented problems in courses on Real Analysis and Differential Equations. We explain a type of task-design that gives students the opportunity to conjecture, refute and prove. What is new in our approach is that the complexity in our problems is limited and thus the tasks can also be used in homework assignments. In addition to several concrete examples we also present feedback and assessment outcomes of our students. The presentation is based on [PW20].

### Reference

[PW20] T. Pawlaschyk and S.-A. Wegner, *Engaging students in conjecturing through homework in Real Analysis and Differential Equations*. Int. J. Math. Educ. Sci. Technol. **51**, no. 3 (2020), 439–450, DOI:10.1080/0020739X.2019.1656832.

(Received September 04, 2020)