

Einladung zum Würzburger Mathematischen Kolloquium

Julius-Maximilians-Universität Würzburg • Fakultät für Mathematik und Informatik

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Supporting collective looking-back practices: Who-Is-Right tasks

Dienstag, der 18. Mai 2021 • 14:15 Uhr

Der Vortrag findet als Zoom-Videokonferenzen statt.

Bitte fordern Sie den Zoom-Link an bei klingenber@mathematik.uni-wuerzburg.de

Inhaltsangabe:

The looking-back stage is rarely observed in students' problem solving in spite of its recognized importance. The importance of this stage is attributed to practices of engagement with queries on verification of the obtained solution(s), comparative consideration of alternative solutions, and formulation of implications for future problem solving. I refer to such practices as looking-back practices.

In the talk I will demonstrate how the looking-back practices can be evoked in small-group classroom discussions of controversial worked-out solutions to word problems. Such tasks are known as who-is-right tasks. The data consisted of audio- and videotapes of six small groups of high-school students working on a who-is-right task in the context of percentage. The data analysis, informed by a discursively-oriented perspective on problem solving, attended to strategies, dialogical moves and mathematical resources enacted by the students towards attempted agreement as to which of the solutions should be endorsed and why. The findings imply that who-is-right tasks have potential for supporting collective looking-back practices. The study contributes to our knowledge on enactment of mathematical resources in problem-solving discourse and on patterns of students' dialogical participation in small-group problem solving.



<https://www.mathematik.uni-wuerzburg.de/de/aktuelles/kolloquium/>

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