

Otto-von-Guericke-Universität Magdeburg  
Fakultät für Mathematik

Auf Einladung des Institutes für Algebra und Geometrie spricht

Frau Janina Krawitz

(WWU Münster)

über das Thema

**Negative effect of the drawing strategy  
on problem solving - What are the reasons?**

**Zoom-Koordinaten:** <https://ovgu.zoom.us/j/95199662620>  
Meeting ID: 951 9966 2620 / Passcode: 461614

**Zeit:** Dienstag, 2. Februar 2021, 14.00 Uhr

Zu diesem Vortrag laden wir alle Interessierten herzlich ein.

Prof. Dr. Stefanie Rach

**Abstract:** The strategy of making a drawing has been claimed to facilitate mathematical problem solving. However, De Bock et al. (2003) surprisingly found that drawing negatively affected performance in solving non-linear geometry problems. In the talk I will present an experimental study with 180 students (ninth- to eleventh-graders) that is a partial replication and also an important extension of the study by De Bock et al. (2003) addressing two factors: linear overgeneralizations and low-quality drawing strategy, both of which might explain the negative effect of drawing. Further, I will briefly discuss the importance and challenges of replication studies in mathematics education.