



Contribution ID: 72

Type: **Presentations in Hanoi**

Reasoning processes in mathematics education and its connection to natural sciences – A theoretical paper

Tuesday, December 14, 2021 4:40 PM (20 minutes)

In this presentation, school mathematics is interpreted as empirical theories with the help of scientific structuralism. The focus is on reasoning processes that show similarities to reasoning in the natural sciences. This is discussed on the basis of theoretical considerations and explicated by means of a mathematics textbook example.

Primary author: DILLING, Frederik (University of Siegen)

Presenter: DILLING, Frederik (University of Siegen)

Session Classification: Parallel 5 - Wroclaw/Guayaquil

Track Classification: 19. Interplay between physics and mathematics