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Students' epistemological beliefs in understanding the 1-D wave equation

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Several studies have explored students' perspectives on understanding physics equations. This paper focuses on students' epistemological changes as they deal with the meaning of the wave equation. Prior to interventions, we assessed students' intuition about the wave equation and identified three epistemological beliefs related to this equation. We then designed tutorials that targeted specific aspects of the wave equation to aid students in making sense of it. While a few persistent views remained evident in the post-test, some students demonstrated an elevated level of understanding with regards to the wave equation.

How would you like to present your contribution?

Live in Košice (time slot to be allotted based on the programme)

Target education level (primary)

University education

Target education level (secondary, optional)

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