

# Semiotic model for learning physics in high school

*Tuesday 5 July 2022 13:00 (20 minutes)*

The work's objective is to identify, from the perspective of the high school student, the relationship between applied mathematics and tangible computation for the understanding of physical phenomena, based on the semiotic model, a principle of construction and reconstruction that articulates the representation and interpretation of physical phenomena. via computer. The study is qualitative and exploratory in nature, implementing a didactic sequence where students make use of physical objects, use tangible computation for the model and analyse its different states over time, derived from this, student elaborations are analysed.

## How would you like to present your contribution?

Hybrid from my own country (later in the conference day, best for Americas ...)

## Target education level (primary)

Upper-secondary education

## Target education level (secondary, optional)

Higher-secondary education

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**Session Classification:** Poster Session: LAB & MDR

**Track Classification:** Lab Work and Experiments in Physics Education