4th World Conference on Physics Education

EMBRACING CHANGES TOGETHER

Contribution ID: **155** Type: **Oral presentations**

Investigating students' insight after attending an optimized research-based planetarium presentation about the apparent motion of the Sun and stars

Tuesday 27 August 2024 11:10 (20 minutes)

We investigated the extent to which attending a planetarium presentation increases secondary school students' understanding of the apparent motion of the Sun and stars. We developed a new planetarium presentation with particular attention to the use of the celestial sphere model and a learning module that prepares students at school for this presentation. We measured the learning gains among 16-17 years old students using the AMoSS test. We find that the learning gains for the star questions are significantly higher than what we found in earlier studies. This is due to better scores on questions about the yearly apparent motion.

How would you like to present your contribution?

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

Target education level

Secondary

Category

Formal Education

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