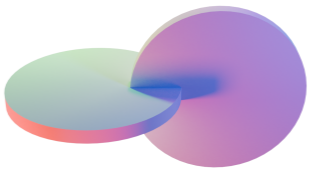

GIREP-EPEC
Transforming physics learning via Research & Practice
LEIDEN, 2025

Contribution ID: **164** Type: **Oral presentation**

Students' reasoning on the characteristics of electromagnetic radiation and its effects

Monday 30 June 2025 14:10 (20 minutes)

The reasoning of 64 Greek secondary education students about the nature of electromagnetic radiation and its effects on human health is investigated. The study took place in the context of a teaching-learning sequence on argumentation and climate change. Results indicate that students' reasoning tended to exploit evidence that was accessible as part of the given scenarios but also prior experience and personal opinions.

Education level

Age 15-18 (Secondary education)

Physics topic

Other

Research focus

Competence-based education

Research method

Educational design research (Qualitative research)

Organizing preference criteria

Track

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Session Classification: Parallel oral presentations

Track Classification: Contemporary and modern physics (CONT)