



GIREP-EPEC

Transforming physics learning via Research & Practice
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Type: **Oral presentation**

Understanding the nature of science and the development of a scientist identity through research internships in modern physics

Wednesday 2 July 2025 09:00 (20 minutes)

It is an important challenge for teacher education programs to promote deep understanding of the nature of science (NOS), and the development of a scientist identity among their students. This study examines how internships in modern physics research, as part of the program, can be employed to attain those aims. Interview data and reflective logs reveal that students feel more confident in conducting scientific inquiry. Further analysis aims to uncover how such experiences may contribute to long-term professional development. This presentation will focus on how research internships can be structured and supported to promote NOS understanding and scientist identity development.

Education level

Pre-service and in-service teacher education

Physics topic

Astronomy and Astrophysics

Research focus

Students' identity, inclusion and wellbeing

Research method

Educational design research (Qualitative research)

Organizing preference criteria

Education level

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Session Classification: Parallel oral presentations

Track Classification: Identity and Belonging in physics (IDENT)