



GIREP-EPEC

Transforming physics learning via Research & Practice
LEIDEN, 2025

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Type: **Poster**

Multidimensional Authenticity in Task Design: Teaching Astronomy and Physics with Historical Stellar Spectra

Monday 30 June 2025 16:30 (1 hour)

This contribution presents an analysis of historical stellar spectrum photographs using digital methods, highlighting their added value for astronomy and science education. Concrete examples of learning activities are provided, and an educational analysis within a multidimensional framework of authenticity is carried out.

Education level

Pre-service and in-service teacher education

Physics topic

Astronomy and Astrophysics

Research focus

Lab course design

Research method

Other

Organizing preference criteria

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Session Classification: Poster session

Track Classification: Astronomy and Astrophysics education (ASTRO)