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Type: Oral presentation

Empowering Advanced Physics Teaching through Remote Experimentation: Insights from LA-CoNGA physics

Friday 4 July 2025 13:00 (20 minutes)

Physics education at the graduate level in Latin America faces structural and geographical constraints that limit students' access to experimental training. Higher Education Institutions in the region often lack both the human and technical resources required to provide comprehensive hands-on experiences in advanced physics. The LA-CoNGA Physics project financed by Erasmus+ Capacity Building initiative, addresses these challenges by integrating remote access laboratories into a collaborative, research-based learning framework. Present work describes three years of design, implementation, and impact assessment of remote access laboratory experiences within LA-CoNGA Physics, which connects HEIS across Colombia, Ecuador, Peru, and Venezuela with European partners

Education level

Age over 18 (excluding teacher education)

Physics topic

Astronomy and Astrophysics

Research focus

Lab experiments

Research method

Mixed method (qualitative & quantitative)

Organizing preference criteria

Track

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Session Classification: Parallel oral presentations

Track Classification: Laboratory-based physics (LAB)