GIREP-EPEC
Transforming physics learning via Research & Practice
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Using Digital Storytelling to Bring Gravitational Waves to School: the GRAVIS Project

Thursday 3 July 2025 10:00 (20 minutes)

Primary and lower secondary school students are naturally curious, often exhibiting a "little scientist" attitude. However, curiosity alone is not enough for developing structured scientific thinking, essential for their education. We present the GRAVIS project, an educational program which brings together gravitational waves physics and digital storytelling to engage students in inquiry-based learning, hands-on activities, and narrative creation. Developed in collaboration with Einstein Telescope Italy, it fosters critical thinking, creativity, and reflection on scientific discovery. By incorporating AI tools and real-world connections, GRAVIS aims to deepen engagement and prepare students for future STEAM education and careers.

Education level

Outreach, Informal & Non-formal learning of physics

Physics topic

Contemporary and modern physics

Research focus

Active learning

Research method

Practitioner's Inquiry / Action Research (Qualitative research)

Organizing preference criteria

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Session Classification: Parallel oral presentations

Track Classification: Digital technologies (DIGI)