

Session Program

4-8 Jul 2022

GIREP 2022, Ljubljana, Slovenia

Contemporary Physics and Modern Physics

Faculty of Education, University of Ljubljana
Kardeljeva ploščad 16, 1000 Ljubljana, Slovenia

Monday 4 July

15:00

Contemporary Physics and Modern Physics

Session | Location: Room 209 | Convener: Paul Alstein

15:00-15:20

(V) Radiolab: Interdisciplinary Paths of Nuclear Physics

Speaker

Vera Montalbano

15:20-15:40

Upper-secondary physics students' expression of representational competence when interacting with a GeoGebra simulation

Speaker

Mrs Lorena Solvang

15:40-16:00

The Energy Field Approach

Speaker

Mr Manuel Becker

16:00-16:20

Designing an open-ended simulation tool for special relativity education at the secondary level

Speaker

Paul Alstein

16:30

Tuesday 5 July

14:00

Contemporary Physics and Modern Physics

Session | Location: Room 230 | Convener: Anja Kranjc Horvat

14:00-14:20

Mathematical tools to explore quantum technologies

Speaker

Maria Bondani

14:20-14:40

An approach to the Second Quantum Revolution: the case of the random walk algorithm

Speaker

Sara Satanassi

14:40-15:00

Student Intuitions in Statistical Mechanics

Speaker

Ebba Koerfer

15:00-15:20

Avoiding the Use of Complex Numbers: Didactic Problems Regarding the Uncertainty Principle?

Speaker

Kristóf Tóth

15:20-15:40

Particle Physics Concepts in High-School Physics Education

Speaker

Anja Kranjc Horvat

15:45

Thursday 7 July

16:00

Contemporary Physics and Modern Physics

Session | Location: Room 209 | Convener: Eleonora Barelli

16:00-16:20

(V) Introducing General Relativity in High Schools: a Teaching-Learning Module

Speaker

Adele Naddeo

16:20-16:40

Elementarizing quantum algorithms: clarification of the internal structure and preliminary learning outcomes

Speaker

Giacomo Zuccarini

16:40-17:00

Exploring students' views about basic concepts in introductory quantum mechanics through factor and cluster analysis

Speaker

Giovanni Giuliana

17:00-17:20

Agent-based perspectives on epidemiological models: analysis of interviews with upper high-school students

Speaker

Dr Eleonora Barelli

17:30