Session Program

13-16 Dec 2021



3RD WORLD CONFERENCE ON PHYSICS EDUCATION

Innovating physics education: From research to practice

WCPE III 2021 Hanoi, VIETNAM Parallel 10 - Wroclaw

Thursday 16 December

11:00

Parallel 10 - Wroclaw: Presentation 10.1 - Contemporary and modern physics

Session

Location: Zoom 3, Zoom ID: 701 110 5119, Passcode: 12345, Keep Zoom ID, Passcode confidential. This is only for WPCE-3 participants.

Conveners: Bartosz Strzelczyk, Ngoc Diep Ta, Maria Bondani

11:00-11:20

State of the art of the sum over paths approach in quantum mechanics education

Speaker

Massimiliano Malgieri

11:20-11:40

Didactics for Contemporary physics and modern physics teaching at Strathmore University (Nairobi-Kenya)

Speakers

Mr Joseph Obbo, Prof. Dominique Persano Adorno

11:40-12:00

The Second Quantum Revolution at school: teaching and learning Quantum Physics in the context of Quantum Technologies

Speaker

Dr Maria Bondani

12:00-12:20

Understanding the relation between classical and quantum mechanics: prospects for undergraduate teaching

Speaker

Adele Naddeo

12:30

11:00

Parallel 10 - Wroclaw: Presentation 10.2 - Experiments and practical work in physics education

Session

Location: Track 3, Zoom ID: 701 110 5119, Passcode: 12345, Keep Zoom ID, Passcode confidential. This is only for WPCE-3 participants.

Conveners: Ngoc Diep Ta, Jonathan Michael Keartland, Dr Paul Logman

11:00-11:20

Electrical Transport Measurements from First Principles: a Senior Undergraduate Experiment

Speaker

Jonathan Michael Keartland

11:20-11:40

Analysis of Smartphone Recorded Transit Light Curves via Astronomical Software

Speaker

Árpád Bordás

11:40-12:00 Two simplified experiments for an estimation of surface tension

Speaker
Ms Giulia Termini

12:00-12:20 Video Tutorials on Selected Topics in the Introductory-Level Dynamics

Speakers
Dr Tetyana Antimirova, Tetyana Antimirova

12:30

11:00

Parallel 10 - Wroclaw: Presentation 10.3 - School physics education

Session

Location: Zoom 3, Zoom ID: 701 110 5119, Passcode: 12345, Keep Zoom ID, Passcode confidential. This is only for WPCE-3 participants.

Conveners: Magdalena Kersting, Ewa Dębowska, Ngoc Diep Ta

11:00-11:20 The many roles of metaphors in learning and doing physics

Speaker

Magdalena Kersting

11:20-11:40 Student Difficulties with the Propagation of a Pulse in a String

Speaker

Mr Muhammad Aswin Rangkuti

11:40-12:00 Constructing a diagnostic instrument for wave optics

Speaker

Katarina Jelicic

11:00

12:30

Parallel 10 - Wroclaw: Presentation 10.4 - Contemporary and modern physics

Session

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Conveners: Robert Bryl, Dat Nguyen Duc, Kristina Zuza

11:00-11:20

University students understanding of the moment of inertia in a rotating rigid body

Speaker

Dr Kristina Zuza

11:20-11:40 The real medical situation for Physics teaching

Speakers

Prof. Oriana Fiore, Oriana FIORE, Prof. Roberto Capone

11:40-12:00

Development of a New Study Module about Knowledge Acquisition in Science

Speaker

Jana Biedenbach

12:00-12:20 Terrestrial and Extra-terrestrial Radioactivity

Speaker

Vera Montalbano

12:30

11:00

Parallel 10 - Wroclaw: Symposium 10.1 - Supporting educational transitions in physics

Session

Location: Zoom 1, Zoom ID: 701 110 5127, Passcode: 12345, Keep Zoom ID, Passcode confidential. This is only for

WPCE-3 participants. |

Conveners: Eilish McLoughlin, Phuong Linh Tran

11:00-12:30 Supporting educational transitions in physics

Speaker

Dr Eilish McLoughlin

12:30