

**Session Program**

**4-8 Jul 2022**

**GIREP 2022, Ljubljana, Slovenia**

***Physics Curriculum Materials***

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

## Tuesday 5 July

14:00

### Physics Curriculum Materials

Session | Location: Room 209 | Convener: Ana Susac

14:00–14:20

#### **(V) Conceptual understanding of microscopic models in thermodynamics**

**Speaker**

Nataša Erceg

14:20–14:40

#### **Methodological Suggestions for Creating Subquestions for the Force Concept Inventory (and Other Research-based Assessments)**

**Speaker**

Dr Michael M Hull

14:40–15:00

#### **An introduction to the Assessment Rubric for Physics Inquiry**

**Speaker**

Freek Pols

15:00–15:20

#### **Investigating university students' visual strategies when solving spectroscopy problems**

**Speaker**

Lana Ivanjek

15:20–15:40

#### **Effect of context on students' understanding of basic vector concepts**

**Speaker**

Ana Susac

15:45

## Thursday 7 July

10:30

### Physics Curriculum Materials

Session | Location: Room 209 | Convener: Leonardo Colletti

10:30-10:50

#### **Productive epistemic games in an Investigative Science Learning Environment**

**Speaker**

Christopher Robin Samuelsson

10:50-11:10

#### **Diagnosing the source of students' difficulties within the Physics-Mathematics interplay context**

**Speaker**

Mrs Hadas Levi

11:10-11:30

#### **Design and validation of a two-tier questionnaire on basic astronomical phenomena**

**Speaker**

Silvia Galano

11:30-11:50

#### **Addressing complexity in primary school through basic physics observations and metaphorical narrative**

**Speaker**

Leonardo Colletti

12:00

## Friday 8 July

10:30

### Physics Curriculum Materials

Session | Location: Room 209 | Convener: Kristina Zuza

10:30-10:50

#### Determination of a car speed - analysis of projectile motion from a muddy puddle

**Speaker**

Aleš Mohorič

10:50-11:10

#### Design of context-based teaching resources for simple electric circuits

**Speaker**

Benedikt Gottschlich

11:10-11:30

#### DBR based Redesign cycle of a TLS on Dynamics for High School

**Speaker**

Kristina Zuza

11:45