



# GIREP-EPEC 2023 Conference, Košice, Slovakia

## Monday 3 July 2023

### Hybrid session - later: 075,078,087,177 - Room 1H (13:40 - 15:30)

-Conveners: Chairman: Giacomo Torzo

time	[id] title	presenter
13:40	[75] New experiment to understand the role of CO2 in global warming	MARON, Valentin
14:00	[177] Astronomy and Arduino applications in Physics class	PETO, Maria
14:20	[87] Teaching Scientific Practices Through Low-Cost Tools: An Experiment with High School Students	GABELLI, Lucia

### Hybrid session - later: 021,129,157,006 - Room 1H (16:00 - 17:30)

-Conveners: Chairman: Claudio Fazio

time	[id] title	presenter
16:00	[21] Old (but Gold) Quantum Theory – A coherent framework for high-school students and teachers	LOVISETTI, Luisa
16:20	[157] Deciding the future of Quantum Technologies	GOORNEY, Simon
16:40	[129] Astronomy concepts in the primary education: a case Brazilian school	MOMETTI, Carlos
17:00	[6] Algebraic graphs and equations versus kinematics graphs and equations – High School teachers' perceptions	Mr PHAGE, Itumeleng

## Tuesday 4 July 2023

### Hybrid session - later: 042,083,138,186,199 - Room 1H (13:40 - 15:30)

-Conveners: Chairman: Micol Alemani

time	[id] title	presenter
13:40	[83] Introduction to Measurement Uncertainties for Middle School Classes	LOIDL, Hannah
14:00	[42] The construction of PET bottle rockets with water propulsion were means used to develop a Meaningful Learning of Newton's Third Law in a High School class	Prof. RIBEIRO, Grazielle Aparecida Correa
14:20	[186] Prospective primary teacher education on electric phenomena	PAGNUTTI, erik
14:40	[199] The Kaleidoscope : a case of the reflection of light	MARTINEZ VICTORIA, Ruth
15:00	[138] Improving pre-service science teachers' mastery in designing and implementing inquiry experiments in physics concepts	YILMAZ SENEM, Beril

### Hybrid session - later: 014,136,112,156,006 - Room 1H (16:00 - 17:40)

-Conveners: Chairman: Tomasz Greczylo

time	[id] title	presenter
16:00	[112] Teaching the subtleties of entanglement via the delayed-choice two-slit experiment with polarizers	FREERICKS, James
16:20	[156] A Visual tour of Quantum Technologies	KARYDI, Eleni
16:40	[136] Design and implementation of a mechanical balance using electromagnetism concepts and active learning	Prof. MONTERO, Eduardo

# Thursday 6 July 2023

## **Hybrid session - later: 035,081,113,145,175 - Room 1H (13:40 - 15:20)**

**-Conveners: Chairman: Thomas Schubatzky**

time	[id] title	presenter
13:40	[145] Training Teachers on New Topics and New Tools in Physics Education	PICCIONE, Andrea
14:00	[35] Interdisciplinary Lesson Study in Italian High School focused on the energy transformations.	Dr ADESSO, Maria Giuseppina
14:20	[113] The Photoelectric Effect and the Electromagnetic spectrum learning through the study of the implementation of spectroscopy techniques in Art analysis.	Ms SAAVEDRA, Brenda Ixcuiname
14:40	[81] Fibonacci sequence in interdisciplinary laboratory: from electric nets to elastic springs	CAPONE, Roberto
15:00	[175] Connecting physics teaching to sustainability challenges: The GREEN-EDU project experience	Prof. PERSANO ADORNO, Dominique