



# WCPE III 2021 Hanoi, VIETNAM

## Tuesday 14 December 2021

**Parallel 5 - Wroclaw/Guayaquil: Presentation 5.2 - Interplay between physics and mathematics - Zoom ID: 701 110 5119, Passcode: 12345 (16:00 - 17:30)**

-Conveners: Frederik Dilling; Nguyễn Thị Tố Khuyên; Tomasz Greczyło

time	[id] title	presenter
16:00	[158] Integration between Mathematics and Physics in engineering students.	Mr MARTINEZ BRIONES, CARLOS ALBERTO Mrs ESPINOZA PRADO, DANA SOFIA
16:20	[127] Students' Reasoning while Using Mathematics in Physics Lessons	LEVI, Hadas
16:40	[72] Reasoning processes in mathematics education and its connection to natural sciences – A theoretical paper	DILLING, Frederik
17:00	[54] A teaching-learning sequence on colour in the context of a motivational stage for high school students	Dr AURELIO, Daniele

**Parallel 5 - Wroclaw/Guayaquil: Presentation 5.3 - School physics education - Zoom ID: 701 110 5119, Passcode: 12345 (16:00 - 17:30)**

-Conveners: RAUL DOS SANTOS NETO; Nguyễn Thị Tố Khuyên; Ewa Dębowska

time	[id] title	presenter
16:00	[89] Engaging students emotionally with Physics using stories	BHANSALI, Aesha
16:20	[157] TEP, PHYSICAL and tolerant exchange in higher education	Mr MARTINEZ BRIONES, CARLOS ALBERTO Mr LARA MARIDUEÑA, FRANKLIN JESUS
16:40	[159] Design principles about using simulators to improve student engagement in the physics teaching	DOS SANTOS NETO, Raul
17:00	[148] Astronomy Teaching - A didactic proposal for measuring the Equinox in Latin America	Mr ROSA, Pedro S. ROSA, Pedro

**Parallel 5 - Wroclaw/Guayaquil: Presentations 5.1 - Contemporary physics and modern physics - Zoom ID: 701 110 5119, Passcode: 12345 (16:00 - 17:30)**

-Conveners: Steven Goldfarb; Nguyễn Thị Tố Khuyên; Mirela Kaczmarek

time	[id] title	presenter
16:00	[84] International Particle Physics Outreach Group: Engaging the world with science	GOLDFARB, Steven
16:20	[187] The IPPOG Resource Database: Making particle physics outreach & education available worldwide	BRUANT GULEJOVA, Barbora
16:40	[160] Spacetime globe: a teaching proposal for the didactics of Special Relativity	LEONARDI, Alessio Mattia
17:00	[91] Pedagogical Considerations for Quantum Instruction	EMIGH, Paul Jeffrey

**Parallel 5 - Wroclaw/Guayaquil: Symposium 5.1 - Differences and similarities in approaches to physics LAB-courses -****Zoom ID: 701 110 5127, Passcode: 12345 (16:00 - 17:30)****-Conveners: Arturo Pazmino; Dat Nguyen Duc; Freek Pols**

time	[id] title	presenter
16:00	[106] Differences and similarities in approaches to physics LAB-courses	POLS, Freek Dr BRADBURY, Forrest POLS, Freek LOGMAN, Paul LEWANDOWSKI, Heather

**Parallel 5 - Wroclaw/Guayaquil: Workshop 5.1 - Collaborative Activities for University Physics during COVID and for****post-COVID Times - Zoom ID: 701 110 5118, Passcode: 12345 (16:00 - 17:30)****-Conveners: Esther Desir e Guti rrez Moreno; Thinh Quy NGUYEN; Gerald Feldman**

time	[id] title	presenter
16:00	[59] Collaborative Activities for University Physics during COVID and for post-COVID Times	FELDMAN, Gerald SCHILTZ, Guillaume