

Conference program

June 3, 2024

9:55 - 10:00	Opening
10:00 - 11:00	Lecture 1
	Sabourou Saitoh
	Emeritus Professor of Gunma University, Japan
	Division by Zero $1/0 = 0/0 = 0$ and Division by Zero Calculus;
	Their Basic Properties and Impacts
12:00 - 13:30	Session 1
	Katalin Munkacsy
	Eötvös Loránd University, Hungary
	Kelecsényi Klára
	University Neumann János, Hungary
	Teaching analysis in secondary schools
	and in non-mathematical higher education
	Mónica Arnal-Palacián
	University of Zaragoza Spain
	oniversity of Zurugozu, Spuin
	Identification of the mathematical elements involved in the answer on the infinite limit of a sequence by prospective teachers



	Barbara Barańska
	University of the National Education Commission, Poland
	The equation of a tangent line
15:30 - 17:00	Session 2
	Mateusz Tofilski
	Szkoła w Chmurze. University of Silesia in Katowice
	Development of Mathematical Skills
	in Self-Directed Learning and Homeschooling
	- Analysis of Educational Tools in Szkoła w Chmurzo
	- Analysis of Educational Tools in Szkola w Chinui Ze
	Deepika Bansal, Venkateswaran Thathamangalam Viswanathan
	Indian Institute of Science Education and Research Mohali, India
	Points of intersections
	in middle school science and mathematics in Indian curriculum
	- identifying opportunities for integrated teaching learning
	Jaccica Line de Souza Formandos
	Federal University of Santa Cataring, Presil
	rederal University of Santa Catarina, Brazil
	Lives in the Philosophy:
	Samba Schools' parades as an Ethno-Mathema-Tics



18:00 - 19:00	Lecture 2
	Norman Wildberger
	University of New South Wales, Sydney, Australia
	Towards a logical rational arithmetic
	as a foundation for maths education and research
19:00 - 19:30	Session 3
	Łucja Farnik University of the National Education Commission, Poland
	Selected manifestations of Lakatos' quasi-empiricism in contemporary algebraic geometry



June 4, 2024

10:00 - 12:00	Session 4
	Eva Ulbrich ¹ , Mathias Tejera ¹ , Angelika Schmid ² , Zsolt Lavicza ¹
	¹ School of Education, Johannes Kepler University, Linz, Austria
	² University of Ostrava, Czech Republic
	From STEM to STEAM: mathematics teachers
	creating 3DMP projects for their lessons
	Cecilia Russo, Zsolt Lavicza
	Johannes Kepler University, Austria
	Fostering Motivation and Transparent Assessment:
	Integrating Game Elements in Education
	Guillermo Bautista, Jr., Abigail Gonzales, Theodosia Prodromou, Zsolt Lavicza, Markus Hohenwarter
	Johannes Kepler University, Austria
	Student Strategies in Function Art:
	Exploring Interdisciplinary Approaches
	Filiz Mumcu, David Hornsby, Zsolt Lavicza, Chronis Kynigos
	Johannes Kepler University, Austria
	Enhancing STEM Education through the Fusion of
	Computational Thinking and Computer Science Education



15:00 - 16:00	Lecture 3
	Zsolt Lavicza Johannes Kepler University, Austria Inspiring teachers' classroom innovations through the integration of Augmented/Virtual Reality and 3D printing into their practices
16:00 - 17:00	Lecture 4
	James Tanton Mathematical Association of America in Washington D.C. The astounding visual story of place value: from base 10 to base x
18:00 - 20:00	Session 5
	Tamara Díaz-Chang Universidad Austral de Chile, Chile Metacognitive strategies as cognitive transgressions in the learning process of certain mathematical concepts al the university level



	Ángel Homero Flores Samaniego
	Universidad Nacional Autónoma de México
	Neuroscience and didactics: a dialogue in construction?
	Jean-François Maheux
	Université du Québec à Montréal, Canada
	Exploring the Transgressive Organics of Mathematical Traces
	Jean-François Maheux
	Université du Québec à Montréal, Canada
	Simon Théberge
	Université du Québec en Abitibi-Témiscamingue, Canada
	Exploring Connections Between Philosophy for Children
	and Relationships to Mathematical Knowledges in Educational Practice
20:00 - 20:10	Closing

Important notes:

- Speech times are given in Polish time (CEST).
- Each session presentation is given 30 minutes at the speakers' disposal (including time for questions).
- All lectures and presentations will be delivered online.
- A link that allows participation in the conference will be sent to all registered participants at the end of May.
- Since the conference is attended by people living in different time zones, **each talk will be recorded**, and participants will receive one-week access to all recordings.