**2023. március 31. péntek**

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| **13:00-14:00** | **Registration** | | |
| **14:00-14:15** | **Opening**  **Dr. Zsolt Páles, head of the Doctoral School of Mathematics and Computer Sciences, University of Debrecen**  **Dr. József Pálfi, rector of Partium Christian University, Oradea**  *Amfiteátru****m*** | | |
| **14:15-15:05** | **Plenary presentation**  **Maria da Piedade Vaz Rebelo, *Maria Graça Bidarra:* Motivation and engagement in achievement contexts** (in English)  **chair: Ilona Téglási**  *Amfiteátrium* | | |
| **15:05-15:20** | **BREAK** | | |
|  | **Session 1** (in Hungarian)  **Chair: Zoltán Muzsnay**  *P21* | **Session 2** (in Hungarian)  **Chair: Zsolt Páles**  *P03* | **Session 3** (in English)  **Chair: Maria da Piedade Vaz Rebelo**  *Amfiteátrum* |
| **15:20-15:45** | Szilvia Homolya, Erika Rozgonyi: The possible effect of the modified mathematics graduation requirements according to NAT 2020 on university education | Sándor Kántor: A vision of future mathematics education | Judit Kovács, Zoltán Kovács, Gabriella Ambrus, Eszter Kónya: Facilitators, engagement, and results of learning mathematics in the narratives of first-year students from elementary teacher training schools |
| **15:45-16:10** | Dóra Fruzsina Sipos: Presenting a method for increasing the effectiveness of technical mathematics education | Ágnes Feczkó, Rebecca Princz: Gamification in an adaptive manner | Linda Devi Fitriana: A promising path toward infinite improvement in mathematics teaching and learning |
| **16:10-16:35** | Adrienn Vámosiné Varga: About online teaching experience | Marianna Pintér: Using Bedtime Math Stories for Kindergarten Math Sessions to Make Math Education Fun and Engaging for Kindergarteners | Emőke Báró, Zoltán Kovács, Eszter Kónya: Students recalling favorite math experience: How does problem-based approach promote mathematical engagement? |
| **16:35-17:00** | Erika Perge, Tibor Guzsvinecz: Tests to assess spatial ability in the education of engineering students | Attila József Szabó: The motion picture as a tool for motivation and knowledge transfer in mathematics teaching | Anna Muzsnay: Csaba Szabó: The effect of retrieval practice on conceptual knowledge in learning polynomials |
| **17:00-17:15** | **BREAK** | | |
|  | **Session 1** (in Hungarian)  **Chair: Edith Debrenti**  *P21* | **Session 2** (in Hungarian)  **Chair: Szilvia Homolya**  *P03* | **Session 3**(in Hungarian)  *Amfiteátrum*  **Chair: Tünde Baranyai** |
| **17:15-17:40** | Ildikó Pomuczné Nagy: Content and teaching of the topic of number theory in the 11th grade of high school | Antal Joós: Teaching mathematics to vocational students | Gabriella Ambrus: Some utilization ideas for a textbook geometry task |
| **17:40-18:05** | Péter Négyesi: The potential of adaptive teaching of number theory in secondary schools | Csaba Czeglédi: Examination of problem posing with different methods in given topics in the vocational training | Zsófia Csepely: Developing mathematical skills via board games |
| **18:05-18:30** | Janka Szeibert, Csilla Zámbó: Developing students' mathematical thinking via number theory problems | Anna Tompos: Developing a geometric perspective through playing board games in a vocational school | Enikő Jakab: Further to be done in the development of mathematical competence |
| **18:30-19:30** | **Performance by the Hungarian heritage award-winning dance ensemble „Csillagocska”**  *Díszterem* | | |
| **19:30** | **DINNER**  *Arany János Kollégium* | | |

**2023. április 1. szombat**

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| **9:00-9:50** | **Plenary presentation**  **Ioannis Papadopoulos: Mental argumentation and the use of structure in problem solving** (in English)  **Chair: Eszter Kónya**  *Amfiteátrum* | | |
| **9:50-10:05** | **BREAK** | | |
|  | **Session 1** (in Hungarian)  **Chair: Magda Várterész**  *P03* | **Session 2** (in Hungarian)  **Chair: Lilla Korenova**  *Amfiteátrum* | **Session 3** (in English)  **Chair: Ilona Téglási**  *Fényes Elek terem, Főépület* |
| **10:05-10:30** | Gábor Kusper: The role of abstraction levels in the teaching of programming | András Ambrus: Some remarkable tendencies in the international mathematics education i research and practice | Ilona Oláhné Téglási, Zoltán Kovács: The Impact of an Interdisciplinary, Tool-based Course on the Motivation of Teacher Training Students |
| **10:30-10:55** | Tibor Tajti: Generating exercises for teaching programming | Ibolya Veress-Bágyi: Statistics learning environment | Carolina Martins, Vanda Santos, Sandra P. Ferreira, Teresa B. Neto: Task design with Poly-Universe: a STEAM approach |
| **10:55-11:20** | Éva Ádámkó, Gusztáv Áron Sziki: Teaching programming skills through technical mechanical problems | Anna Mária Takács: Comparison of digital and traditional accounting for a specific set of math problems | Miklós Hoffmann: Representation of Microeconomics problems with Poly-Universe |
| **11:20-11:45** | Gusztáv Áron Sziki, Éva Ádámkó: Teaching Engineering Informatics through technical and natural science problems | Gabriella Papp: E-tests as motivational opportunities in mathematics classes | Eleonóra Stettner: How can colors and proportions become music? |
| **11:45-12:30** | **LUNCH**  *Arany János Kollégium* | | |
| **12:30-16:00** | **SIGHTSEEING** | | |
| **16:00-16:50** | **Plenary presentation**  **Lilla Korenova: Digital technologies from the perspective of the COVID-19 pandemic** (in Hungarian)  **Chair: Zoltán Kovács**  *Amfiteátrum* | | |
| **16:50-17:05** | **BREAK** | | |
|  | **Session 1** (in Hungarian)  **Chair: Tibor Juhász**  *P03* | **Session 2** (in Hungarian)  **Chair: Csaba Szabó**  *Amfiteátrum* | **Session 3** (in English)  **Chair: Miklós Hoffmann**  *P01* |
| **17:05-17:30** | Csaba Biró, Csilla Prantner, Ferenc Koczka: Quantum informatics in grades 5-8 of primary school? | Zsolt Fülöp: From numerical computations to structural thinking – a functional approach to algebra | Gordana Stankov: Games and inclusion with Poly-Universe |
| **17:30-17:55** | Tamás Balla, Sándor Király: sqlsuli.hu - Online way to learn SQL | Ildikó Bereczki, Csaba Csíkos: Two more or twice as much? | János Szász Saxon , Kristóf Fenyvesi: Development of STEAM educational tools based on the creative reinterpretation of the Poly-Universe math&art system |
| **17:55-18:20** | Csilla Prantner, Zoltán Csernai, Réka Racsko: Collaborative learning spaces supported by VR/AR technology | Orsolya Dóra Lócska: Rethinking the bridging function of graphical representation in the arithmetic-algebra transition: the issue of strategy choice | Zsuzsa Dárdai & PUNTE team: Poly-Universe + PUNTE Good Practices workshop |
| **18:20-18:45** | Zoltán Csernai: Methodological application of Computational Thinking in courses at ranked universities | Evelin Anna Geszler: Benefits of digital assessment |
| **19:00** | **DINNER**  *Mediterana Restaurant* <https://mediteranarestaurant.ro> | | |

**2023. április 2. vasárnap**

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| **9:00-9:50** | **Plenary presentation**  **Róbert Oláh-Gál: Selections from the Bolyai's mathematical manuscripts, Bolyai summation, For children about the Bolyais - Description of my latest books and their methodological and didactic background** (in Hungarian)  **Chair: Debrenti Edith**  *Amfiteátrum* | | |
| **9:50-10:05** | **BREAK** | | |
|  | **Session 1** (in Hungarian)  **Chair: Róbert Oláh-Gál**  *Amfiteátrum* | **Session 2** (in Hungarian)  **Chair: Gusztáv Áron Sziki** | **Session 3** (in Hungarian)  **Chair: Stankov Gordana**  *P03* |
| **10:05-10:30** | Sándorné Kántor: How does the subject of human and his environment appear in mathematics lessons? | Tünde Klára Baranyai, Edith Debrenti: Basic logical operational skills among students | György Emese: Hypothesis testing in high school educational experiment– through the eyes of a high school teacher |
| **10:30-10:55** | Gergely Kardos, Zoltán Matos: Outcomes of a Cross-curricular Experiment in Teaching Mathematics | Enikő Palencsár, Szilvia Szilágyi: Integrating game-based learning in the field of numerical series | Szende-Barbara Majoros, Enikő Nagy: How do we plan? How to plan! |
| **10:55-11:20** | Márton Kiss: What is the experience of the looking back phase of Polya's model with 9th grade students? | Attila Körei, Szilvia Szilágyi: Visualization and representation of cycloid curves by LEGO robots | Pál Katonka: Skills test results and their relation to previous measurements |
| **11:20-11:35** | **Closing**  **Dr. Zoltán Muzsnay, Leader of the Didactical Program of Doctoral School of Mathematics and Computer Sciences, University of Debrecen**  **Dr. Eszter Kónya, Chair of the Organizing Committee**  *Amfiteátrum* | | |
| **11:45-** | **LUNCH**  *Arany János Kollégium* | | |