

**UPDATED 21.02.2024**

## **LIST OF ACCEPTED PRESENTATIONS**

### **FACTOR AND THEATRE EUROPE COMPETITIONS 2024 - PARTICIPANTS**

#### **MATH FACTOR Ages 9-13**

MFL1. "Origami angle trisection", Michail Kallergis, I.M. Panagiotopoulos School, Greece

MFL2. "Schedule of cards", Maja Horvatic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFL3. "Probabilities and combinatorics", Elena Camelia Dumitrașcu, Liceul Teoretic Tudor Arghezi, Romania

MFL4. "Tessellation, complete with pattern", Ji Yul Kim, Daegu Samyook Elementary School, Korea, Republic of

MFL5. "Hexagonal Honey Cells", Charis Vasiliou, Xenion High School, Cyprus

MFL6. "2024 Maths Odyssey: My Space Rocket is a Geometrical Paradox or an Illusion?", Loukas Nikas, I.M. Panagiotopoulos School, Greece

MFL7. "Pi", Erik Zezelj, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFL8. "Perfect numbers", Leona Salajpal, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFL9. "The Pythagorean theorem", Maria Rada, Liceul Teoretic Tudor Arghezi, Romania

MFL10. "Mathematical proof of the Volume of the Cylinder", Dongmin Lee, Osung Middle School, Korea, Republic of

MFL11. "Math Coach: A Mathematical Approach in Football", Alkinoos Alexopoulos, I.M. Panagiotopoulos School, Greece

MFL12. "Vampire numbers", Gloria Martosic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFL13. "The Broken Scales", Kyriaki Varianou, Periferiako Gymnasio Xylofagou, Cyprus

MFL14. "Infinitive string of nines", Elena Lara Ruzic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFL15. "Victor calls Peggy to Explain the Zero-Knowledge Protocol", Alexandros Koutroubis, I.M. Panagiotopoulos School, Greece

MFL16. "Find the Gold!", Dohyeok Kwon, Daegu Dongdo Elementary School, Korea, Republic of

MFL17. "RoboLogic and Gödel's Playful Puzzles", Georgia Tsatsaroni, I.M. Panagiotopoulos School, Greece

MFL18. "The Leap Year", Stefania Teodora Popescu, Liceul Teoretic Tudor Atghezi, Romania

MFL19. "Fan-Tastic Geometry: A Cooling Proof of the Total Sum of Polygon's Internal Angles", Eleni Veroniki Gavriil, I.M. Panagiotopoulos School, Greece

MFL20. "Wingardium Leviosa", Lorana Habek, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFL21. "Prime numbers", Marta Gregurina, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFL22. "The Secrets of Pascal's Triangle", Christos Papanicolaou, Pagkyprion Gymnasion, Cyprus

### **MATH FACTOR Ages 14-18**

MFU1. "Is 0.999... equal to 1", Matej Markovinovic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU2. "Hypatia explores shapes in math", Clara Sá Peres, Lycée Français Charles Lepierre, Portugal

MFU3. "Spider webs", Marija Svegovic, Srednja škola Koprivnica, Croatia

MFU4. "The perfect shape", Zara Rupicic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU5. "Euclid's elements", Lily Jade Martins, Lycée Français Charles Lepierre, Portugal

MFU6. "Piadinas, what a passion!", Fausto De Iesu, ISIS "Europa", Italy

MFU7. "Math in pizza", Juraj Ascic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU8. "Pythagorean triples", Franka Zufika, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU9. "Math in wave motion", Antea Jelovic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU10. "Unlocking probability: the Monty Hall problem explained", Lina Bouzoubaa, Lycée Français Charles Lepierre, Portugal

MFU11. "Fingermath", Amadea Filipovic, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU12. "Symmetry and Asymmetry", Laura Sifkorn, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU13. "Mathematics 3 instinct 2", Silvana Lia Aprile, ISIS "Europa", Italy

MFU14. "Zipf's law", Anja Horvat, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU15. "Ramanujan sequels", Sarah Pourny, Lycée Français Charles Lepierre, Portugal

MFU16. "An infinite hotel", Patrik Habek, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU17. "Barbie, my friend", Sirya D'errico, ISIS "Europa", Italy

MFU18. "Golden ratio", Mia Gregurina, Osnovna škola "Braća Radić" Koprivnica, Croatia

MFU19. "Multiplying with the number 11", Una Bebek, Osnovna škola "Braća Radić" Koprivnica, Croatia

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### **SCIENCE FACTOR Ages 9-13**

- SFL1. "Secrets of Football Free Kicks; Banana kick", Roun Lee, Shepherd International Education, Korea, Republic of
- SFL2. "Exploring the Wonders of Bernoulli's Principle Through Hobbies", Seungbeen Lee, Shepherd International Education in Seoul, Korea, Republic of
- SFL3. "The high speed of aeroplanes", Stefan Bogdan Corbu, Liceul Teoretic Tudor Arghezi, Romania
- SFL4. "Kettle, once used for murdering", Nayeon Choi, St. Johnsbury Academy Jeju, Korea, Republic of
- SFL5. "Light", Maria Ungureanu, Jacstyle Model & Talent Agency, Romania
- SFL6. "Breaking the inevitable wall of physics: Journey to Galileo's experiments to the Apollo mission", Jongwan Chae, St. Johnsbury Academy Jeju, Korea, Republic of
- SFL7. "The colourful world of butterflies", Amalia Ungureanu, Jacstyle Model & Talent Agency, Romania
- SFL8. "Harvesting H<sub>2</sub>O: Eco-Friendly Water Recycling for Water Conservation", Jongheon Chae, St. Johnsbury Academy Jeju, Korea, Republic of
- SFL9. "Unveiling the Secrets of Dark matter and Dark energy", Jiwan Kim, Osung Middle School, Korea, Republic of
- SFL10. "Forces on the playground", Anastasia Paun, Jacstyle Model & Talent Agency, Romania
- SFL11. "Birth of Earth: From big bang to our planet's genesis", Iji Jung, Daegu Samyuk Elementary School, Korea, Republic of
- SFL12. "The experiment", Ingrid Barbu, Liceul Teoretic Tudor Arghezi, Romania
- SFL13. "Exploring Light-Surface Interaction: Total internal reflection", Hyeon Woo Kwon, Osung Middle School, Korea, Republic of
- SFL14. "Antimatter", Doyun Kim, Osung Middle School, Korea, Republic of
- SFL15. "The unbreakable drop", Alexandru-Cristian Otovescu, Liceul Teoretic Tudor Arghezi, Romania
- SFL16. "Comprehensive Exploration of Angular Motion: Implications for Biomechanics, Sports Science, and Rehabilitation", Donghun Park, Osung Middle School, Korea, Republic of
- SFL17. "Newton's laws of motion", Mihnea Stefan Radu, Liceul Teoretic Tudor Arghezi, Romania

### **SCIENCE FACTOR Ages 14-18**

- SFU1. "The Role of the Diaphragm in Singing", Jacqueline Alessia Craciun, Jacstyle Model & Talent Agency, Romania
- SFU2. "Capacitors", Matej Markovinovic, Osnovna škola "Braća Radić" Koprivnica, Croatia
- SFU3. "Risoto RNA", Angelos Marios Nicolaou, Pagkyprion Gymnasion, Cyprus

SFU4. “|Epigenetics, the balance between nature and nurture”, Christos Tapakoudis, United World College of the Adriatic, Italy

SFU5. “The God particle”, Patrik Habek, Osnovna škola "Braća Radić" Koprivnica, Croatia

SFU6. “Galileo's pendulum”, Sirya D'errico, ISIS "Europa", Italy

SFU7. “Virtual Reality and biosignals technology for cancer patients' rehabilitation”, Elpida Lazarou, Gymnasio Geriou, Cyprus

SFU8. “The History of Record Players”, Natalia Impuscatu, Jacstyle Model & Talent Agency, Romania

SFU9. “The Lambdoma and the Monochord of Pythagoras”, Liudmyla Bakhtiarian, Pagkyprion Gymnasion, Cyprus

SFU10. “Do you want an apple?”, Fausto De Iesu, ISIS "Europa", Italy

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### **MATH THEATRE Ages 9-13**

MTL1. “Dreams of multiplications”, I.M. Panagiotopoulos School, Greece

MTL2. “The Escape”, Liceul Teoretic Tudor Arghezi, Romania

MTL3. “The missing Spaghets”, Xenion High School, Cyprus

MTL4. “The Irrational Shipwreck”, I.M. Panagiotopoulos School, Greece

MTL5. “A stranger in NumberLand”, Gymnasium Anthoupolis, Cyprus

MTL6. “Integers' Battle”, Xenion High School, Cyprus

MTL7. “The Hendecagon of Savorgnano”, Pagkyprion Gymnasion, Cyprus

MTL8. “Everything Seems Inscribed in Me”, I.M. Panagiotopoulos School, Greece

### **MATH THEATRE Ages 14-18**

MTU1. “Monty Hall's Spirits”, Xenion High School, Cyprus

MTU2. “The Platonic Collection”, The English School Nicosia, Cyprus

MTU3. “The Will of Uncle George Plani”, Peace and Freedom Secondary School Deryneias – Sotiras, Cyprus

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### **SCIENCE THEATRE Ages 9-13**

STL1. “I Have a Dream”, Shepherd International Education in Seoul (Sie), Korea, Republic of

STL2. “The Cure”, Liceul Teoretic Tudor Arghezi, Romania

STL3. “The lost stone”, Periferiako Gymnasio Xylofagou, Cyprus

STL4. “Owls, the world's most enigmatic birds”, JacStyle Model & Talent Agency, Romania



**SCIENCE THEATRE Ages 14-18**

STU1. "Air-Science", Pagkyprion Gymnasion, Cyprus

STU2. "Poor Thales Becomes Rich", Lyceum A' Ethnarchi Makarios III, Cyprus

STU3. "A Beating Heart.... for Music", Jacstyle Model & Talent Agency, Romania

STU4. "A Tasty Twist of Science", The GC School of Careers, Cyprus

STU5. "The Battle of the Architects", Pagkyprion Gymnasion, Cyprus