

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Tuesday, 12 March 2024
Tor Vergata University of Rome, Italy

All day	Arrivals		
15:00 – 19:00	REGISTRATION Tor Vergata University of Rome, Italy Address of Campus: Via Cracovia, 50, 00133 Roma RM, Italy Conference location within the "Tor Vergata" campus: School of Economics, Via Columbia 2, 00133, Rome, Italy Registration area: Entrance of School of Economics (Ground Floor) <i>(See bus schedule from official hotels for 13-14-15 March for the groups booked)</i>		Registration for Conference participants and Competition Finalists MATH&SCIENCE Poster Design Competition - Submission of printed poster designs

Wednesday, 13 March 2024
Tor Vergata University of Rome, Italy

9:15+	Buses from official hotels are expected to arrive at 9:15 am REGISTRATIONS (Entrance of School of Economics, Via Columbia 2): For Conference participants and competition finalists MATH & SCIENCE Poster COMPETITION Submission of printed poster designs		
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Place	Aula Magna EUROMATH	Aula TL EUROSCIENCE	Aula T4 Workshops for students and Teachers	Aula T7 Workshops for Teachers
Coordinators	MATHEOU, SKOTINOS	LAZAROU, PAPAGEORGIOU	KASAPAKIS	FIGUEIREDO
09:45 – 10:00	MP11 THE HIDDEN BEAUTY OF MATHS IN ART Elena Potamiti The English School Nicosia, Cyprus	SP26 HOW DO AIRPLANES FLY? Eleni Zantidou The Grammar School, Nicosia, Cyprus	WS5A (25 ACTIVE PARTICIPANTS) Beyond the Classroom Walls: Exploring VR in Education Vlasias Kasapakis, Professor University of Aegean, Greece	WS2 Pedagogical differentiation with the MILAGE LEARN+ platform Mauro Figueiredo Universidade do Algarve, Portugal
10:00 – 10:15	MP12 MATH AND GENETICS Marielena Neophytou The English School Nicosia, Cyprus	SP28 UNRAVELLING THE MYSTERIES OF STEM CELLS Naomi Gerber, Odysseas Pavlou, Noa Phil Med High Private English School, Larnaca, Cyprus	WS5A Beyond the Classroom Walls: Exploring VR in Education	WS2 Pedagogical differentiation with the MILAGE LEARN+ platform
10:15 – 10:45	MP13 MATHS AND NATURE Aigli Josephides Koufterou The English School Nicosia, Cyprus	SP29 THE HEARTBEAT-CLOCK CONNECTION Romy Haddad, Sofia Hadjikleanthous Med High Private English School, Larnaca, Cyprus	WS5A Beyond the Classroom Walls: Exploring VR in Education	WS2 Pedagogical differentiation with the MILAGE LEARN+ platform

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Coordinators	MATHEOU, SKOTINOS	LAZAROU, PAPAGEORGIOU	ECONOMOU	GOGOVSKA
10:45 – 11:00	MP14 MONEY MATHS Anna Maria Menelaou, Irene Yianna The English School Nicosia, Cyprus	SP30 MUNCHAUSEN BY PROXY Olga Georgiou Med High Private English School, Larnaca, Cyprus	WS5A Beyond the Classroom Walls: Exploring VR in Education	WS2 Pedagogical differentiation with the MILAGE LEARN+ platform
11:00– 11:15	MP15 MATHEMATICS BEHIND MUSIC Marilita Alkiviadi, Egli Michaelidou The English School Nicosia, Cyprus	SP31 WHAT LIFE LOOKS LIKE IN DIFFERENT BIOMES Mohamed Ben Zerti Med High Private English School, Larnaca, Cyprus	WS13 Mathematical Games Mara Grašić OŠ "Braća Radić" Koprivnica, Croatia	WS6 Climate Change Education with Geospatial Technologies. The STEAME Approach for Mapping Global Challenges Prof. Dr. Rafael de Miguel González President of EUROGEO, Associate Dean for International Relations & CI Director, University of Zaragoza
11:15 – 11:30	MP16 MATHEMATICS, CRYPTOCURRENCIES AND STOCKS Gerasimos-Georgios Panayides, Chariton Charitonos, Garry Petrossian The English School Nicosia, Cyprus	SP1 A JOURNEY BEYOND: A ROCKETS FLIGHT TO OUTER SPACE Antonis Christodoulou, Nicholas Christodoulou, Antonis Tymvios The Grammar School, Nicosia, Cyprus	WS13 Mathematical Games	WS6 Climate Change Education with Geospatial Technologies. The STEAME Approach for Mapping Global Challenges
11:30 – 11:45	MP17 IS IT RANDOM OR IS IT AN ALGORITHM? Sylia Andreou, Anna Theodorou, Eleana Iacovou The English School Nicosia, Cyprus	SP2 AUSSIE AIRWAVES: RIDING THE PHYSICS WAVE OF BOOMERANG FLIGHT Anastasia Pitsillidou The Grammar School, Nicosia, Cyprus	WS13 Mathematical Games	WS6 Climate Change Education with Geospatial Technologies. The STEAME Approach for Mapping Global Challenges

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Place	AULA MAGNA (max 420) (Live Streaming in Aula TL – max 180)
Master of Ceremony	YIANNIS LAZAROU
11:50 – 13:15	<p style="text-align: center;">Opening Ceremony EUROMATH and EUROSCIENCE Conference 2024, European STEAME-ACADEMY Symposium 2024 Room Aula Magna: TOR VERGATA UNIVERSITY OF ROME, ITALY</p> <p style="text-align: center;">Invited Plenary 1 Mathematics Competitions Around the World in 2024 Robert Geretschläger, President World Federation of National Mathematics Competitions (WFNMC), Austria</p> <p style="text-align: center;">Invited Plenary 2 STEAME EDUCATION: A CAREER CATALYST Georgios Tzachristas, Student, National Technical University of Athens, Greece</p>
13:15 – 14:15	<p>Lunch Break, Place: School of Economics (two areas A and B, check your coupon so you go to the correct location) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration</p>

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Place	Aula Magna EUROMATH	Aula TL EUROSCIENCE	Aula T4 Workshops for students and Teachers	Aula T7 Workshops for Teachers and Students
Coordinators	MATHEOU, MARGARITI	PAPAGEORGIU, ECONOMOU	LAZAROU, VOSKARIDES	SKOTINOS, GOGOVSKA
14:15 -14:30	Pharmacy – Tor Vergata University degree	Engineering Sciences – Tor Vergata University degree	Global Governance - Tor Vergata University degree	Business Administration and Economics - Tor Vergata University degree
14:30 – 14:45	MP1 THE STABLE MATCHING PROBLEM Zois Pavlos, Karathanasis Panagiotis, Oikonomidis Iordanis, Mastropoulos Emonas, Papanikolatos Gerasimos, Papaioannou Komninos, Papaioannou Vaggelis Zanneio Model Lyceum of Piraeus, Greece	SP3 WHAT MAKES LIFE POSSIBLE ON A PLANET Eva Toxqui The Grammar School, Nicosia, Cyprus	WS7 The powerful role of Entrepreneurship inside an effective STEAME learning environment: Theory and practice on real examples of Project Based Learning in STEAME schools Yiannis Lazarou, Mathematics Teacher (STEAME education) at Pagkyprion Gymnasion, Cyprus	WS9 Best math strategies for fostering creativity Valentina Gogovska UKIM, Faculty of Natural Sciences and Mathematics-Skopje, North Macedonia
14:45 – 15:00	MP2 4-2-3-1 Konstantinos Charalambous, Antonis Dianellos, Varnavas Hadjipanayis, Andreas Pantelides The GC School of Careers, Nicosia, Cyprus	SP4 UNLOCK LUCIDITY: A GATEWAY TO DREAM CONTROL Anna Loizou, Andriana Charalambous, Markos Ioannou The Grammar School, Nicosia, Cyprus	WS7 The powerful role of Entrepreneurship inside an effective STEAME learning environment: Theory and practice on real examples of Project Based Learning in STEAME schools	WS9 Best math strategies for fostering creativity
15:00 – 15:15	MP3 BUFFON’S NEEDLE - FINDING A NEEDLE IN A HAYSTACK OR PI IN THE NEEDLES Jingwen Fu The GC School of Careers, Nicosia, Cyprus	SP5 THE STUDY OF EARTH’S MAGNETIC FIELD: IT’S PROPERTIES AND IT’S LINK TO MIGRATION Maria Andrea Papachristou, Maria Dorzi The Grammar School, Nicosia, Cyprus	WS7 The powerful role of Entrepreneurship inside an effective STEAME learning environment: Theory and practice on real examples of Project Based Learning in STEAME schools	WS9 Best math strategies for fostering creativity
15:15 – 15:30	MP4 THE GOLDEN RATIO AND HUMAN BEAUTY - A CONTROVERSIAL CONNECTION Angeliki Hadjigregoriou, Xenia Papandreou The GC School of Careers, Nicosia, Cyprus	SP6 THE FORMATION OF SEASHELLS. IS IT RANDOM? Stavros Larmou The Grammar School, Nicosia, Cyprus	WS7 The powerful role of Entrepreneurship inside an effective STEAME learning environment: Theory and practice on real examples of Project Based Learning in STEAME schools	WS8 How can we use learning analytics to improve mathematics understanding in high school through STEAM approaches? Andreas Skotinos Cyprus Mathematical Society

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Coordinators	MATHEOU, MARGARITI	SKOTINOI, ECONOMOU	TZACHRISTAS, VOSKARIDES	PAPAGEORGIOU, MAKRIDES
15:30 – 15:45	MP5 UNDERSTANDING WHY YOU ARE A LOSER IN THE STOCK MARKET Peter Han Fei Hong The GC School of Careers, Nicosia, Cyprus	SP42 SMART WASTE MANAGEMENT Tekla Bandzeladze*, Demetre Artsividze**, Mete Kilinc***, Mahmoud Ala'a Mahmoud Tayyeb**** *, ***, ****American International School Progress, Tbilisi, Georgia, ** Telavi King Erekle II Public School N1, Kakheti, Georgia	WS17 Workshop on "ΕΠΙ – STEAME" Sotos Voskarides Affiliate Professor, Cyprus University of Technology, Cyprus	WS8 How can we use learning analytics to improve mathematics understanding in high school through STEAM approaches?
15:45 – 16:00	MP6 MATHEMATICS DRIVING SHOTGUN Antonia Kyriakou, Stavros Papacharalambous, Fotini Yiorkadji The GC School of Careers, Nicosia, Cyprus	SP43 THE EFFECT OF CLIMATE CHANGE ON GEORGIAN REGIONS Helya Kamali, Petr Perekorenko, Lizi Tkebuchava, Aishwarya George Menachery American International School Progress, Tbilisi, Georgia	WS17 Workshop on "ΕΠΙ – STEAME"	WS8 How can we use learning analytics to improve mathematics understanding in high school through STEAM approaches?
16:00 – 16:15	MP7 MATHS IN FORENSICS Paris Kalorkotis, Mary Mina, Theodora Pamboridou, Omiros Trypatsas The GC School of Careers, Nicosia, Cyprus	SP63 THE GALILEAN TELESCOPE Nadia Gharaibeh, Ghazal Hamdan, Maya Constantinou Med High Private English School, Larnaca, Cyprus	WS17 Workshop on "ΕΠΙ – STEAME"	WS12 Project-Based Learning STEAME activities for STEAME Schools Eleni Papageorgiou Cyprus Pedagogical Institute, Cyprus
16:15 – 16:30	MP29 FOOTBALL AND ITS MATHEMATICS Maximos Yiasemides, Andreas Chimarides, Iacovos Malekkos The Senior School, Nicosia, Cyprus	SP59 THE SCIENCE BEHIND MENTAL DISORDERS Gaia Nufusi Levent College, Nicosia, Cyprus	WS11 GENCRAFT AI image Generator Georgios Tzachristas Student, National Technical University of Athens, Greece	WS12 Project-Based Learning STEAME activities for STEAME Schools

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Coordinators	MARGARITI, ECONOMOU	SKOTINOI, MERCAT	TZACHRISTAS, MATHEOU	MAKRIDES
16:30 – 16:45	MP30 PURRPLEXING ENCLOSURE – THE STORY OF A HIDING CAT Constantinos Michaelas, Leonidas Thanh Ikossi Le, Raphael Son Ikossi Le The Senior School, Nicosia, Cyprus	SP34 COMPARE ELECTROLYTES IN ENERGY DRINKS TO FRESH AND CONCENTRATED ORANGE JUICE Anthi Amanatidou, Fevronia Beli, Vasiliki Karaiskou De La Salle College, Thessaloniki, Greece	WS11 GENCRAFT AI image Generator	WS12 Project-Based Learning STEAME activities for STEAME Schools
16:45 – 17:00	MP31 WHY ARE KNOTS MORE THAN JUST KNOTS? Ekaterina Frolova The Senior School, Nicosia, Cyprus	SP35 TIDE, AN IMPRESIVE NATURAL PHENOMENON Victoria Vamvakari, Despoina Samara De La Salle College, Thessaloniki, Greece	WS11 GENCRAFT AI image Generator	WS12 Project-Based Learning STEAME activities for STEAME Schools
17:00 – 17:15	MP43 UNRAVELING THE COASTLINE MYSTERY: A JOURNEY INTO FRACTAL GEOMETRY Tsianakas Dimitrios Romanos, Pavlos Emmanouil Kontrafouris, Angelos Kosmas Lialios, Masouras Georgios, Mazonakis Georgios, Ioannis Georgios Papandreou I.M.Panagiotopoulos School, Greece	SP32 LYE AIN'T LIE Leonidas Giachanatzis De La Salle College, Thessaloniki, Greece	WS4 Artificial Intelligence applications in education Kyriakos Matheou Cyprus Mathematical Society	WS14 Scientific Decathlon Hiie Asser, Maksim Ivanov, Natalia Ivanova, Julia Klochkova Tartu Annelinna Gymnasium, Tartu Estonia

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Coordinators	MARGARITI, ECONOMOU	SKOTINOI, MERCAT	TZACHRISTAS, MATHEOU	MAKRIDES, FIGUEIREDO
17:15 – 17:30	MP44 TRUTH OR DARE? Ioannis Vogiatzis, Chara Pantazopoulou, Christina Logotheti, Michalis Ligkas Kaplanis, Kontantinos Kallergis, Pantelis Stefanou I.M.Panagiotopoulos School, Greece	SP33 WHAT OCCURS IN THE BRAIN OF A BULLY AND A SERIAL KILLER: A BIOLOGICAL PERSPECTIVE AND THE SIGNIFICANCE OF EMOTIONAL INTELLIGENCE Nikoletta Chanoumidou, Aikaterini-Maria Tzika De La Salle College, Thessaloniki, Greece	WS4 Artificial Intelligence applications in education	WS14 Scientific Decathlon
17:30 – 17:45	MP45 ARE YOU A CHESS MASTER? Ioannis Patelis, Kallirroi Politou, Polyxeni Nikolakopoulou, Nikolaos Kanellopoulos, Vasileios Foteineas I.M.Panagiotopoulos School, Greece	SP19 SPACE JUNK Ioannis Episkopou, Roma Theocharides, Veronica Kalyvitou The Senior School, Nicosia, Cyprus	WS4 Artificial Intelligence applications in education	WS14 Scientific Decathlon
17:45 – 18:00	MP46 IS SUBTRACTION A LIE? LET'S DIVE INTO IT! Alkinoos Alexopoulos, Michail Kallergis, Marilia Kazalaki, Alexandros Koutroumpis, Anastasia Bintza, Theodora Bintza, Georgia Tsatsaroni I.M.Panagiotopoulos School, Greece	SP20 BREAK IT DOWN & RECONSTRUCT IT Ioannis Ivan Symeonides, Matheos Gedeon, Polina Lebedeva The Senior School, Nicosia, Cyprus	WS4 Artificial Intelligence applications in education	SY2 STEAME ACADEMY: STEAME Teacher facilitators Academy Gregory Makrides, University of the National Education Commission, Krakow, Poland and THALES Foundation of Cyprus
18:00 – 18:15	MP47 ALL ROADS LEAD TO ROME: HOW MUCH MATH IS REQUIRED TO NAVIGATE US FROM ATHENS TO ROME? Alkinoos Alexopoulos, Michail Kallergis, Marilia Kazalaki, Alexandros Koutroumpis, Anastasia Bintza, Theodora Bintza, Georgia Tsatsaroni I.M.Panagiotopoulos School, Greece		WS4 Artificial Intelligence applications in education	SY2 STEAME ACADEMY: STEAME Teacher facilitators Academy
18:30	Buses to official hotels are expected to depart at 18.30			

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

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BUSES from official hotels are expected to arrive by 9:30 am

REGISTRATIONS Area: Entrance of School of Economics: For Conference participants and competition finalists

Place	Aula Magna EUROMATH	Aula TL EUROSCIENCE	Aula T4 Workshops for students and Teachers	Aula T7 Workshops for Teachers and Students
Coordinators	MATHEOU, ORLANDUCCI	LAZAROU, VENANZI	SKOTINOS	GOGOVSKA, KASAPAKIS
09:45 – 10:00	MP79 MOSER'S CIRCLE PROBLEM AND PASCAL'S TRIANGLE Aggelos Pandoulas, Dinos Papatheanasiou, John Logothetis The Moraitis School, Athens, Greece	SP58 THE FUTURE OF HUMANITY AND ARTIFICIAL INTELLIGENCE Tevdore Namgaladze, Niko Firosmenis Saint King Tamar Gymnasium of the Patriarchate, Georgia	WS15 Educational Workshop "Brain Laboratory" Madlen Kirkor Christova, Teodora Stanislav Vasileva 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	WS10 Triangles and Quadrilaterals – Some of my Favorite Problems Robert Geretschläger President World Federation of National Mathematics Competitions (WFNMC), Austria
10:00 – 10:15	MP80 FRACTALS: DIMENSION AND PATTERNS IN CHAOS Lydia Kratsa, Alexia Argyri, Danae Valtara The Moraitis School, Athens, Greece	SP8 SEISMIC IMPACT ON DIFFERENT BUILDING STRUCTURES Aimilios Papatotiriou The GC School of Careers, Nicosia, Cyprus	WS15 Educational Workshop "Brain Laboratory"	WS10 Triangles and Quadrilaterals – Some of my Favorite Problems
10:15 – 10:30	MP81 DECODING THE MAP COLOURING MYSTERY: A CENTURY LONG QUEST FOR THE FOUR-COLOUR THEOREM'S PROOF AND ITS FURTHER APPLICATIONS Kiran Lavett Pascal Private English School, Cyprus	SP9 TASTING MOLECULES Sotia Koukou, Konstantinos Patinios, Anastasia Stylianidi The GC School of Careers, Nicosia, Cyprus	WS15 Educational Workshop "Brain Laboratory"	WS10 Triangles and Quadrilaterals – Some of my Favorite Problems
10:30 – 10:45	MP82 FRACTALS UNVEILED: NATURE'S HIDDEN PATTERNS AND CHAOTIC SYMMETRY Christiana Panayiotou Pascal Private English School, Nicosia, Cyprus	SP10 MASTER MANIPULATORS: PARASITES, THEIR EFFECTS AND IMPORTANCE Kalia Lefkati The GC School of Careers, Nicosia, Cyprus	WS16 Educational Workshop "My Smart Home" Jasena Valerieva Christova, Ivayla Ivaylova Radkova, Desislava Ananieva Chergarska 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	SY1 How the Invention of the Microchip Changed our World Bernd Deutschmann Professor of Electronics, Head of Institute of Electronics, Technical University of Graz, Austria

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Coordinators	MATHEOU, ORLANDUCCI	LAZAROU, VENANZI	MERCAT, DEUTSCHMANN	GOGOVSKA, KASAPAKIS
10:45 – 11:00	MP50 THE PROBLEM OF THE WORLD HUNGER Nikolina Markovic, Svetlana Rsumovic High School "Sveti Sava", Serbia	SP11 EXPLOITING OXIDATIVE STRESS FOR NON-INVASIVE TUMOUR TREATMENT Iolie Demetriou, Marileni Iacovides, Andriana Kyprianou The GC School of Careers, Cyprus	WS16 Educational Workshop "My Smart Home"	SY1 How the Invention of the Microchip Changed our World
11:00 – 11:15	MP18 LOVE AND MATH Maria Christina Economides, Alexandra Georgiou The English School Nicosia, Cyprus	SP12 MAKING IONISING RADIATION VISIBLE Antonis Pissarides The GC School of Careers, Nicosia, Cyprus	WS16 Educational Workshop "My Smart Home"	SY3 Tasks with proofs as a tool for deep understanding in the mathematics classroom Valentina Gogovska UKIM, Faculty of Natural Sciences and Mathematics-Skopje, North Macedonia
11:15 – 11:30	MP34 MATHCHESS Borislav Stefanov Fidanov, Maxim Plamenov Marinov 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	SP13 ROCKETS Orfeas Marios Kladeftiras, Evangelos Pitsillis The GC School of Careers, Nicosia, Cyprus	WS18 Drawing Nice Knots Christian Mercat Directeur adjoint de l'IREM de Lyon, Université Claude Bernard Lyon 1, France	WS5B (25 ACTIVE PARTICIPANTS) Beyond the Classroom Walls: Exploring VR in Education Vlasis Kasapakis, Professor University of Aegean, Greece
11:30 – 11:45	MP35 THROW AND HOLD Hristo Kostadinov Kostadinov 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	SP64 HOW CAN AIRPLANES FLY? Chanmin Kim Yongsan International School of Seoul, South Korea	WS18 Drawing Nice Knots	WS5B Beyond the Classroom Walls: Exploring VR in Education

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Coordinators	MATHEOU, ORLANDUCCI	LAZAROU, VENANZI	MERCAT, DEUTSCHMANN	GOGOVSKA, KASAPAKIS
11:45 – 12:00	MP36 STEINER-LEMUS THEOREM Ivan Valentinov Filipov 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	SP65 DARK ENERGY AND DARK MATTER Kim Doyun, Kim Jiwan O-sung Middle School, South Korea	WS18 Drawing Nice Knots	WS5B Beyond the Classroom Walls: Exploring VR in Education
12:00 – 12:15	MP37 THE JOKES OF INFINITY Ivaylo Antonov Dragovski 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	SP66 WHICH PAPER AIRPLANE WILL GO THE FURTHEST? PAPER AIRPLANES AND BERNOULLI'S PRINCIPLE? Gaon Lee Shepherd International Education, South Korea	WS1A (25 STUDENTS ACTIVE) BLINKING LIGHTS: Solder Your Own Circuit Deutschmann Bernd, Maier Christoph, Juch Nikolaus TU-Graz	WS5B Beyond the Classroom Walls: Exploring VR in Education
12:15 – 12:30	MP8 NAVIGATING SKIES AND ROADS Aris Americanos, Evelthon Glykys, Sotiris Theofanous The GC School of Careers, Nicosia, Cyprus	SP67 THE MYSTERY OF VIBRATIONS: UNDERSTANDING RESONANCE Donghun Park, Hyeonwoo Kyon, DongMin Lee Osung Middle School, South Korea	WS1A BLINKING LIGHTS: Solder Your Own Circuit	WS5B Beyond the Classroom Walls: Exploring VR in Education
12:30 – 12:45	MP9 MATHEMATICS BEHIND REFUSE CLASSIFICATION Gong Zilin The GC School of Careers, Nicosia, Cyprus	SP68 A STUDY ON THE FACTORS AFFECT THE QUALITY OF SLEEP Jaein Ryu*, Jungwoo Lee** *St. Johnsburry Academy Jeju, South Korea, **Uchon Elementary School, Seoul, S. Korea	WS1A BLINKING LIGHTS: Solder Your Own Circuit	WS5B Beyond the Classroom Walls: Exploring VR in Education
12:45 – 13:00	MP10 SPACE MATHS Stavros Georgiou, Michalis Florides The GC School of Careers, Nicosia, Cyprus	SP69 WHAT HAPPENS WHEN MUSCLE GROWS? Jimin Shin, Yuhyun Nam, Jiyul Lee Cornerstone Collegiate Academy of Seoul, South Korea	WS1A BLINKING LIGHTS: Solder Your Own Circuit	WS5B Beyond the Classroom Walls: Exploring VR in Education

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13:15 – 14:15	Lunch Break, Place: School of Economics (two areas A and B, check your coupon so you go to the correct location) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration			
Place	Aula Magna EUROMATH	Aula TL EUROSCIENCE	Aula T4 Workshops for students and Teachers	Aula T7 Workshops for Teachers and Students
Coordinators	ECONOMOU, TZACHRISTAS	MATHEOU, KASAPAKIS	MARGARITI, SKOTINOI	FIGUEIREDO, MERCAT
14:15 -14:30	Medicine and Surgery - Tor Vergata University degree	Mathematics at Tor Vergata University,	Physics at Tor Vergata University	Chemistry at Tor Vergata University
14:30 – 14:45	MP32 WAR OF GEOMETRIES Viktoria Branimirova Nacheva , Valentin Georgiev Gadzhelov, Simeon Nedyalkov Nikolov, Tzveta Georgieva Dzhevelekova, 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	SP70 UNEXPECTED TRAVELER: VIRUS. GLOBAL WARMING ALLOWS VIRUSES TO GO ANYWHERE AT ANY TIME Luke Chae, Clara Choi, Elly Kim St. Johnsbury Academy Jeju, South Korea	WS1B (25 STUDENTS ACTIVE) BLINKING LIGHTS: Solder Your Own Circuit Deutschmann Bernd, Maier Christoph, Juch Nikolaus TU-Graz, Austria	WS3 Play to learn with the MILAGE app Mauro Figueiredo Universidade do Algarve, Portugal
14:45 – 15:00	MP33 JUNG'S THEOREM IN THE PLANE AND THE 3-D SPACE Boris Stanislavov Kostadinov 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	SP71 UNVEILING THE POTENTIAL OF ARTIFICIAL SUN AND THE EVOLUTION OF ATOMIC THEORY Daniel Chae, Hayun Park St. Johnsbury Academy Jeju, South Korea	WS1B BLINKING LIGHTS: Solder Your Own Circuit	WS3 Play to learn with the MILAGE app
15:00 – 15:15	MP19 HOW MATHS IS USED IN COSMETOLOGY Yiolanda Liveri, Nicole Tornaritis, Ellen Apeyitou The English School Nicosia, Cyprus	SP72 COLOR PERCEPTION AND LIMITS *Jaewon Lee, *Yehryeng Hong, *Seoyoon Moon, **Hajoon Lee *Cornerstone Collegiate Academy of Seoul, South Korea **St Paul Academy Daechi, Seoul, S. Korea	WS1B BLINKING LIGHTS: Solder Your Own Circuit	WS3 Play to learn with the MILAGE app
15:15 – 15:30	MP20 FROM EQUATIONS TO COURTROOMS Lina Constantinou, Filaretos Ierotheou, Alexandros Tseriotis The English School Nicosia, Cyprus	SP73 WHAT WOULD HAPPEN IF YOU FELL INTO A BLACKHOLE? Tia Son, Bella Yang, Aiden Kim, Tero Kim Shepherd International Education, South Korea	WS1B BLINKING LIGHTS: Solder Your Own Circuit	WS19 Magical Mathematical Tricks Christian Mercat Directeur adjoint de l'IREM de Lyon, Université Claude Bernard Lyon 1, France

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Coordinators	ECONOMOU, TZACHRISTAS	MATHEOU, KASAPAKIS	MARGARITI, SKOTINO	FIGUEIREDO, MERCAT
15:30 – 16: 45	MP21 PICTURE PROOFS Ismini Gavrielidou, Lia Petrou The English School Nicosia, Cyprus	SP74 THE INFLUENCE OF TEMPERATURE ON VOLUME Seojun Park, Branksome Hall Asia, Seogwipo City, Jeju-do, South Korea	WS1B BLINKING LIGHTS: Solder Your Own Circuit	WS19 Magical Mathematical Tricks
15:45 – 16:00	MP22 THE MATH BEHIND AI MAGIC Aglaia Patsalides The English School Nicosia, Cyprus	SP75 THE PAPER AIRPLANE IS BACK!! Seungjoo Lee Shepherd International Education, Seoul, South Korea	SY4 The unusual and the mysterious: What Science thinks Massimo Longo Department of Chemical Science and Technologies University of Rome Tor Vergata, Italy	WS19 Magical Mathematical Tricks
				EUROMATH & EUROSCIENCE Coordinators PAPAGEORGIU, FIGUEIREDO
16:00 – 16:15	MP23 THE MATHS BEHIND DOBBLE Anna Rouva, Maria Michael The English School Nicosia, Cyprus	SP17 TIME TRAVELLING Marcos Pitsillides, Michail Kravets, Andreas Roderich Kyrykos The Senior School, Nicosia, Cyprus	SY5 Harmony in Cultivation: Exploring Aquaponics' Sustainable Symphony Davide Frassine, Francesco Scuderi, Enrico Luigi Redi, Roberto Braglia, Antonella Canini Tor Vergata University of Rome, Botanic Gardens, Viale Guido Carli snc, Rome, Italy	MP88 READ CHANGES: ANALYSIS OF LOSING WEIGHT ON A DIET Mina Park, Minho Park Saint Johnsbury Academy Jeju, South Korea
16:15 – 16:30	MP24 THE NATURE OF MATHEMATICS Artemis Demetriade, Nefeli Diaouri, Despoina Markidou The English School Nicosia, Cyprus	SP18 THE AMAZING WORLD OF 3D GLASSES Ariel Makri Levy The Junior & Senior School, Nicosia, Cyprus	SYS6 The Universality of Mathematics: The Central Limit Theorem Prof. Domenico Marinucci Department of Mathematics, University of Rome "Tor Vergata", Italy	MP76 THE BRIDGE AND THE FOUR GUARDS Kougianos Konstantinos, Dimitris Vourlokas, Manos Daskalakis, Michalis Trakas Erasmios Hellenic German School, Athens, Greece

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Thursday, 14 March 2024
Tor Vergata University of Rome, Italy

Place	Aula Magna EUROMATH	Aula TL EUROMATH	Aula T4 EUROMATH	Aula T7 Workshops for Teachers and Students
Coordinators	ECONOMOU, TZACHRISTAS	MATHEOU, KASAPAKIS	MARGARITI, SKOTINO	PAPAGEORGIU, FIGUEIREDO
16:30 – 16:45	MP25 THE SCIENCE OF EATING Antrea Iacovou, Stephanie Kremmou The English School Nicosia, Cyprus	MP48 MEASURE WITHOUT A RULER: A HISTORICAL OVERVIEW AND COMPARATIVE STUDY Maria Mixalakea, Aggeliki Mixalakea, Panagiota Mpsanou, Eleni Veroniki Gavriil, Alkmini Alexopoulou, Loukas Nikas I.M.Panagiotopoulos School, Greece	SYS7 Quantitative methods in climate science: a possible role for mathematics Prof. Piermarco Cannarsa Department of Mathematics, University of Rome “Tor Vergata”, Italy	MP77 THE DALTONS’ GREAT ESCAPE Aspasia Natsoulidou, Nikolaos Armonis, Philipos Dendrinis, Athina Vouvousa Erasmios Hellenic German School, Athens, Greece
16:45 – 17:00	MP26 THE UNIVERSAL EQUATION Margarita Mita, Sophia Anastasi The English School Nicosia, Cyprus	MP49 EXPLORING PATTERNS TO UNDERSTAND NUMBERS: A MULTIFACETED APPROACH Alkmini Alexopoulou, Loukas Nikas, Aggeliki Mixalakea, Maria Mixalakea, Panagiota Mpsanou, Eleni Veroniki Gavriil, I.M.Panagiotopoulos School, Greece	EUROMATH	MP78 MORE THAN ENOUGH SNACKS Magdalini Georgiadi, Maximos Edouardos Minopetros, Anastopoulos Filippou Erasmios Hellenic German School, Athens, Greece
			Coordinators MARGARITI, SKOTINO	
17:00 – 17:15	MP27 WHICH IS THE BEST TEAM IN THE PREMIER LEAGUE? Andreas Anastasi The English School Nicosia, Cyprus	MP51 JOURNEY THROUGH THE HISTORY OF CROATIAN SCIENCE Laura Sabljak, Lea Tomak, Larisa Žeželj Prva Riječka Hrvatska Gimnazija, Rijeka, Croatia	MP56 LIFE IN A BILLIONTH OF A NUTSHELL Antonis Tymvios The Grammar School, Nicosia, Cyprus	SP56 DISCOVERY AND STUDY OF SOME BENEFICIAL BACTERIA AND FUNGI IN DAMBALKHACHO (MOLDY CHEESE) Anastasia Matchavariani, Bagrat Kharashvili, Ani Goduadze №63 Public School, Georgia
17:15 – 17:30	MP28 CAN MATHEMATICS WIN AT MAFIA? Riana Georgiadi, Theodora Constantinou The English School Nicosia, Cyprus	MP93 GAMBLING MATHEMATICS Elena Trapezanidou, Chrysa Alampriti, Constantina Zachariou, Michalis Paraskeva, Notis Sakka, Andreas Stavroulis, Giorgos Leonida, Konstantinos Kalli, American Academy Larnaca, Cyprus	MP57 CAN YOU SPIN FOREVER? THE ART OF BALLET AND MATHEMATICS Ourania Niki Shiaka, Laura More Charalampous The Grammar School, Nicosia, Cyprus	SP57 BIAS IN ARTIFICIAL INTELLIGENCE Leon Gkougkoulis 1 st Gymnasium of Papagos, Greece

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Thursday, 14 March 2024
Tor Vergata University of Rome, Italy

Place	Aula Magna EUROMATH	Aula TL EUROMATH	Aula T4 EUROMATH	Aula T7 EUROSCIENCE
Coordinators	ECONOMOU, TZACHRISTAS	MATHEOU, KASAPAKIS	MARGARITI, SKOTINO	PAPAGEORGIU, FIGUEIREDO
17:30 – 17:45	MP38 QUICK MINDSET Kaloyan Danielov Geshev 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	MP53 MATHEMATICS IN ANCIENT EGYPT: UNVEILING THE GEOMETRIC ELEGANCE OF THE NILE CIVILIZATION Eleni Antoniou, Augoustina Theodoridou, Aggelos Kleanthous, Paris Zamboglou, Ermini Demou, Christina Christodoulou PASCAL Secondary School, Lemesos, Cyprus	MP58 CUDDLY KILLERS; CAN THE POPULATION OF STRAY CATS INFLUENCE THE ENTIRE ECOSYSTEM? Mary Isabelle Tanousis The Grammar School, Nicosia, Cyprus	SP14 UNRAVELING THE AERODYNAMICS OF PAPER AIRPLANES Angelos Christoforou, Theocharis Karatsiolis, Aris Papallis, Andreas Stylianou The GC School of Careers, Nicosia, Cyprus
17:45 – 18:00	MP39 DIDO'S PROBLEM Nikola Stanislav Vasilev 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	MP94 ASTROMATH ODYSSEY Martin Stanev, Stefanos Stylianou, Andreas Kyriacou, Dimitris Georgiou, Alexandros Pitsillides, Filippos Pratziotis, Antonios Ttantis American Academy Larnaca, Cyprus	MP59 THE CLEVER OLD MAN AND THE RIVER Qiyue Angel Wang The Grammar School, Nicosia, Cyprus	SP15 UNVEIL THE SECRETS OF SCIENCE TOWARDS A BETTER FUTURE Maria Ioannou, Olivia Kattou, Antonia Kyriakou The GC School of Careers, Nicosia, Cyprus
18:00 – 18:15	MP40 POLYHEDRA Tsvetina Tsvetislavova Antova, Selina Alper Aleytin 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	MP90 ZERO. THE MOST SIGNIFICANT NOTHING. Nestoras Athanasopoulos, Ioannis Vergadis, Alexandros Dountsis, Ioannis Krasas, Spyros Xyropaidis I.M.Panagiotopoulos School, Junior High School, Athens, Greece	MP74 THE FOUR-COLOR THEOREM Victoria Avgoustinou, Iason Georgilidakis, Eleni Ioanna Maragaki, Regina Neroutsou Europaiko Protypo, Athens, Greece	SP16 HARVESTING ELECTRICITY FROM PLANTS Evalena Papadopoulou The GC School of Careers, Nicosia, Cyprus
18:15 – 18:30	MP92 FOOTBALL COMPLEXITY HIDDEN IN MATHEMATICS Christoforos Kekkou, Giorgos Tsardellis, Konstantinos Skordis, Neofytos Neocleous, Antreas Miltiadous American Academy Larnaca, Cyprus	MP91 THERE ARE 10 TYPES OF PEOPLE, THOSE WHO UNDERSTAND THE BINARY SYSTEM, AND THOSE WHO DON'T. Michael Eirinaios Malavazos, Angeliki Tzifa, Ioannis Sklavis, Maria Karamitsa, Spyros Dimitris Farmakis I.M.Panagiotopoulos School, Junior High School, Athens, Greece	MP52 A PLANNED SUMMER Sirya D'errico, Davide Rota ISIS "Europa", Italy	MP73 NON-EUCLIDEAN GEOMETRY Sofiia Andrusenko 9-V Class, Ukrainian College No. 272, Kyiv, Ukraine

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Thursday, 14 March 2024
Tor Vergata University of Rome, Italy

13.00	MATH & SCIENCE Poster Design Competition ends
Place	Room: Theatre Auditorium, School of Humanities, Via Columbia 1, 00133, Rome, Italy
Coordinator	ECONOMOU, MARGARITI, TZACHRISTAS

10:00 – 13:15	 <h2 style="margin: 0;">MATHFactor Europe 2024 Competitions – Finals</h2>
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Finalists

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 Dumitraşcu, 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.** “Infinite 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

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


EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

<p>MFL17. "RoboLogic and Gödel's Playful Puzzles", Georgia Tsatsaroni, I.M. Panagiotopoulos School, Greece</p> <p>MFL18. "The Leap Year", Stefania Teodora Popescu, Liceul Teoretic Tudor Atghezi, Romania</p> <p>MFL19. "Fan-Tastic Geometry: A Cooling Proof of the Total Sum of Polygon's Internal Angles", Eleni Veroniki Gavriil, I.M. Panagiotopoulos School, Greece</p> <p>MFL20. "Wingardium Leviosa", Lorana Habek, Osnovna škola "Braća Radić" Koprivnica, Croatia</p> <p>MFL21. "Prime numbers", Marta Gregurina, Osnovna škola "Braća Radić" Koprivnica, Croatia</p> <p>MFL23. "The Bolzano's Theorem: The Art of Balancing Tables", Emmanouil Kontrafouris Pavlos, I.M. Panagiotopoulos School, Greece</p>	<p>MFU15. "Ramanujan sequels", Sarah Pourny, Lycée Français Charles Lepierre, Portugal</p> <p>MFU16. "An infinite hotel", Patrik Habek, Osnovna škola "Braća Radić" Koprivnica, Croatia</p> <p>MFU17. "Barbie, my friend", Sirya D'errico, ISIS "Europa", Italy</p> <p>MFU18. "Golden ratio", Mia Gregurina, Osnovna škola "Braća Radić" Koprivnica, Croatia</p> <p>MFU19. "Multiplying with the number 11", Una Bebek, Osnovna škola "Braća Radić" Koprivnica, Croatia</p>
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Thursday, 14 March 2024 Tor Vergata University of Rome, Italy

Room	Theatre Auditorium, School of Humanities, Via Columbia 1, 00133, Rome, Italy
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Coordinator	ECONOMOU, MARGARITI
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14:30 – 16:00	 <h3 style="margin: 0; color: #000080;">SCIENCEFactor Europe 2024 Competitions – Finals</h3>
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<p>Finalists</p> <p><u>SCIENCE FACTOR Ages 9-13</u></p> <p>SFL1. "Secrets of Football Free Kicks; Banana kick", Roun Lee, Shepherd International Education, Korea, Republic of</p> <p>SFL2. "Exploring the Wonders of Bernoulli's Principle Through Hobbies", Seungbeen Lee, Shepherd International Education in Seoul, Korea, Republic of</p> <p>SFL3. "The high speed of aeroplanes", Stefan Bogdan Corbu, Liceul Teoretic Tudor Arghezi, Romania</p> <p>SFL4. "Kettle, once used for murdering", Nayeon Choi, St. Johnsbury Academy Jeju, Korea, Republic of</p> <p>SFL5. "Light", Maria Ungureanu, Jacstyle Model & Talent Agency, Romania</p> <p>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</p> <p>SFL7. "The colourful world of butterflies", Amalia Ungureanu, Jacstyle Model & Talent Agency, Romania</p> <p>SFL8. "Harvesting H2O: Eco-Friendly Water Recycling for Water Conservation", Jongheon Chae, St. Johnsbury Academy Jeju, Korea, Republic of</p>	<p>Finalists</p> <p><u>SCIENCE FACTOR Ages 14-18</u></p> <p>SFU1. "The Role of the Diaphragm in Singing", Jacqueline Alessia Craciun, Jacstyle Model & Talent Agency, Romania</p> <p>SFU2. "Capacitors", Matej Markovinovic, Osnovna škola "Braća Radić" Koprivnica, Croatia</p> <p>SFU3. "Risoto RNA", Angelos Marios Nicolaou, Pagkyprion Gymnasion, Cyprus</p> <p>SFU4. " Epigenetics, the balance between nature and nurture", Christos Tapakoudis, United World College of the Adriatic, Italy</p> <p>SFU5. "The God particle", Patrik Habek, Osnovna škola "Braća Radić" Koprivnica, Croatia</p>
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EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

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

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 Bakhtiiarian, Pagkyprion Gymnasion, Cyprus
SFU10. "Do you want an apple?", Fausto De Iesu, ISIS "Europa", Italy

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Thursday, 14 March 2024 Tor Vergata University of Rome, Italy	
Place	Room: Theatre Auditorium, School of Humanities, Via Columbia 1, 00133, Rome, Italy
Coordinator	LAZAROU, MARGARITI
16:00 – 18:45	 SCIENCE Theatre Europe 2024 Competition – Finals
Finalists	
SCIENCE THEATRE Ages 9-13 STL1. “I Have a Dream”, Shepherd International Education in Seoul (Sie), Republic of S. Korea STL2. “The Cure”, Liceul Teoretic Tudor Arghezi, Romania 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
19:00 – 22:00	Dinner Dance “Mathematics and Science by Night”, 14 March 2024 Place: Area B, School of Economics, Via Columbia 2, Tor Vergata University of Rome, Italy
22:30	Buses to official hotels are expected to depart at 22:30

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Friday, 15 March 2024			
Tor Vergata University of Rome, Italy			
Place	P1 (First Floor) School of Economics EUROMATH	T12A School of Humanities EUROSCIENCE	T12B School of Humanities EUROMATH
Coordinators	KASAPAKIS, VENANZI	PAPAGEORGIU, GOGOVSKA	MATHEOU, MERCAT
9:45 – 10:00	MP41 MATHEMATICS AND AIRPLANE CRASHES Petra Bušljeta, Gabrijela Kozelički, Anika Lučić, Nika Tomljanović Prva Riječka Hrvatska Gimnazija, Rijeka, Croatia	SP55 LESS SNACK MORE STEP Fausto De Iesu, Sirya D'Errico ISIS "Europa", Italy	MP70 THE INEFFABLE OF ROOT TWO Filoxenidis Stavros-Loukas Doukas School, Athens, Greece
10:00 – 10:15	MP61 COLOUR THEORY AND MATHS Marina Mavros Med High Private English School, Larnaca, Cyprus	SP62 CARBON AROUND US Silvana Lia Aprile, Fausto De Iesu ISIS "Europa", Italy	MP71 CITYSCAPES AND NATURE'S SYMPHONY: THE UNATTAINABLE HARMONY OF BIOMIMICRY Kounatidis Stavros, Kiosis Antonis De La Salle College, Thessaloniki, GR
10:15 – 10:30	MP62 UNRAVELING THE DEPTHS OF COFFEE Maria Karevina Med High Private English School, Larnaca, Cyprus	SP54 FUTURE UNDERWATER CITIES Silvana Lia Aprile, Davide Rota ISIS "Europa", Italy	MP72 HOW THE HOUSE ALWAYS WINS: DECODING CASINO MATHEMATICS Christina Trontziou, Theodoros Stefanidis De La Salle College, Thessaloniki, Greece
10:30 – 10:45	MP63 FRACTALS Gracie Chalhoub, Yali Vaknin, Mykyta Kryvyi, Maria Gryshko Med High Private English School, Larnaca, Cyprus	SP44 ION THRUSTER Kampanis Konstantinos, Maniotis Dimitris, Kalochristianakis Harry Pierce – The American College of Greece, Athens, Greece	MP95 ROULETTE Savvas Fragkeskou American Academy Larnaca, Cyprus
10:45 – 11:00	MP64 MATH IN A HEART BEAT Elis Raif, Shana Ghossoub, Sevgi Sokmez Med High Private English School, Larnaca, Cyprus	SP45 HOW A DIFFERENT FIELD OF GRAVITY CAN AFFECT A LIVING ORGANISM? Charisopoulos George, Katsimichas Thalys, Lagogianni Foteini, Petropoulos Giannis, Vonatsou Nicole Pierce – The American College of Greece, Athens, Greece	MP96 WHY YOUR FRIENDS ARE MORE POPULAR THAN YOU Maryam Shawki Mahmoud Daoud Soliman American Academy Larnaca, Cyprus

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Friday, 15 March 2024			
Tor Vergata University of Rome, Italy			
Place	P1 (First Floor) School of Economics EUROMATH	T12A School of Humanities EUROSCIENCE	T12B School of Humanities EUROMATH/EUROSCIENCE
Coordinators	KASAPAKIS, LONGO	PAPAGEORGIU, GOGOVSKA	MATHEOU, MERCAT
11:00 – 11:15	MP65 MATHEMATICS IN RHYTHMIC GYMNASTICS Dariia Khudobiak Med High Private English School, Larnaca, Cyprus	SP46 HOW TO FIND WHICH BASKETBALL PLAYER CAN GO PRO? Pavlos Minas Kotsis, Angelos Kyriakidis Mpimpas, Emmanouhl Koukos Pierce – The American College of Greece, Athens, Greece	MP97 IS IT MATHS OR LUCK? Eva Tofini, Arsinoi Charalampous, Evita Kouroumounou American Academy Larnaca, Cyprus
11:15 – 11:30	MP66 HOW GAMES CHANGE YOUR LIFE Ekaterina Lomakina Med High Private English School, Larnaca, Cyprus	SP52 THE RACE AGAINST DRAG: THE ART OF PHYSICS IN FORMULA 1 Desislava Markova, Meriem Fereva, Valeria Topalova, American College of Sofia, Bulgaria, National Gymnasium of Natural Sciences and Mathematics "Academician Lyubomir Chakalov, Bulgaria	<u>EUROSCIENCE</u> SP36 CREATIVITY AND MENTAL ILLNESS Maria Ioanna Athanasopoulou, Aimilia Raditsi, Konstantinos Ntompros, Aimilios Oikonomidis De La Salle College, Thessaloniki, Greece
11:30 – 11:45	MP83 ONLINE EGYPTIAN FRACTIONS AND METHODS OF WRITING A FRACTION, AS EGYPTIAN FRACTIONS Nahal Mannani Vadgard Skole, Copenhagen, Denmark	SP60 UNLEASHING POSSIBILITIES: OUR ROBOTIC ARM PROJECT Denaxa Lida Maria, Sougiannis Anastasios Marios, Spyridakis Georgios, Tsakagianni Iefstathia-Ilektra I.M. Panagiotopoulos School, Greece	SP37 LiDAR TECHNOLOGY: UNVEILING THE DEPTHS OF PRECISION Stavros Orestidis, Melina Triantafillou, Alexandros Manaos De La Salle College, Thessaloniki, Greece
11:45 – 12:00	MP84 ONLINE PROVIDE APPROPRIATE METHODS FOR CALCULATING INFINITE FRACTIONS Seyedeh Elisa Hashemi Shahede Narges, Zanjan, Iran	SP61 UNLEASHING POSSIBILITIES: OUR SCHOOL VOICE ASSISTANT Evangeliou Alexandra, Evangeliou Georgios, Giotis Orestis, Stavridis Marios, Stavroulidakis Antonis I.M. Panagiotopoulos School, Greece	SP38 ACTIVITY OF VITAMIN C AND OF ITS SUBSTITUTES Pasmatzi Katerina, Manola Sophia De La Salle College, Thessaloniki, Greece

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Friday, 15 March 2024			
Tor Vergata University of Rome, Italy			
Place	P1 (First Floor) School of Economics EUROMATH	T12A School of Humanities EUROSCIENCE	T12B School of Humanities EUROMATH
Coordinators	KASAPAKIS, ORDANDUCCI	PAPAGEORGIOU, GOGOVSKA	MATHEOU, MERCAT
12:00 – 12:15	MP85 ONLINE FINDING THE REMAINDER OF DIVIDING POWER NUMBERS BY A NUMBER USING MODULAR ARITHMETIC Diana Mannani Gxu, Copenhagen, Denmark	SP39 ANTIBIOTIC RESISTANCE Vasilena Georgieva Chakarova 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	MP98 THE SYMBIOSES OF MATHEMATICS AND PSYCHOLOGY Elina Chili, Daria Maksimova, Avgilina Kyriakidou, Katerina Efstathiadou, Kyriakos Marios Kyzouridis, Konstantinos Rossos, Margarita Paraskevopoulou American Academy Larnaca, Cyprus
12:15 – 12:30	MP86 ONLINE PRESENTING A NEW AND CLASSIFIED METHOD TO FIND THE GENERAL SENTENCE OF NUMERICAL PATTERNS Shayan Hasani Iranian, Zanzan, Iran	SP40 SLIME MOLD Lachezar Orlinov Ivanov 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	MP99 MATHEMATICAL WONDERS OF NATURE Lazaros Zeniou American Academy Larnaca, Cyprus
12:30 – 12:45	MP75 PASCAL'S TRIANGLE Antonis Karikas Pierce- The American College of Greece, Athens, Greece	SP41 CENTER OF MASS OF IRREGULAR POLYHEDRA Tsvetina Tsvetislavova Antova, Selina Aleper Aleytin, Rumen Yulianov Rumenov 125 th Secondary School "Boyan Penev", Sofia, Bulgaria	MP100 EQUATIONS OF ELEGANCE Ellie Afxentiou, Mariam Kotzia, Panayiota Kyriacou, Polina Louka, Fotia Miltiadous, Antriana Nikola, Elisavet Papachristoforou, Maria Papaloizou American Academy Larnaca, Cyprus
12:45 – 13:00	MP89 WHY YOU CAN'T DEVIDE BY ZERO Rok Felicijan, Jaša Stopar SŠ Domžale, Slovenia	SP53 LOAD SIMULATION ANALYSIS ON VEHICLE-BRIDGE INTERACTION PARAMETERS FOR DYNAMIC AMPLIFICATION AND BEAM BRIDGE PERFORMANCE Yoana Troeva, Svetoslav Ivanov American College of Sofia, Bulgaria	MP101 FOOD IN EUROPE Elena Andreou, Marilena Kakoulli, Myria Lambrou, Rebecca Mila Schulz American Academy Larnaca, Cyprus
13:00 – 13:15	MP60 THE P-ADICS NUMBERS: A MATHEMATICAL JOURNEY Titouan Roger Lycée Français Charles Lepierre, Lisboa, Portugal		

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Friday, 15 March 2024

Tor Vergata University of Rome, Italy

13:15 – 14:30

Lunch Break, Place: School of Humanities (two areas A and B, check your coupon so you go to the correct location)

Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration

Friday, 15 March 2024

Tor Vergata University of Rome, Italy

Room	Theatre, School of Humanities, Via Columbia 1, 00133, Rome, Italy	
Coordinator	LAZAROU, TZACHRISTAS	
10:00 – 13:00		MATH-Theatre Europe 2024 Competition – Finals
	Finalists	
	<p><u>MATH THEATRE Ages 9-13</u> 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 MTL9. “The lost stone”, Periferiako Gymnasio Xylofagou, Cyprus</p>	<p><u>MATH THEATRE Ages 14-18</u> 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</p>

EUROMATH & EUROSCIENCE & EUROPEAN STEAME-ACADEMY SYMPOSIUM 2024

Friday, 15 March 2024	
Tor Vergata University of Rome, Italy	
Room	Theatre Auditorium, School of Humanities, Via Columbia 1, 00133, Rome, Italy
	AWARDS CEREMONY (Place: Theatre Auditorium, School of Humanities, Via Columbia 1) LIVE STREAMING IN ROOM AULA T12A (School of Humanities)
Coordinator	I. Lazarou, A. Charalambous, L. Konstantinou, E. Margariti
14:30 – 14:45	Gospel Choir of the “Tor Vergata University”
14:45 – 15:10	Presentation by TOR-VERGATA University of Rome
15:10 – 15:15	Closing Remarks by prof. Gregory Makrides, Chair of EUROMATH & EUROSCIENCE 2024 & STEAME-ACADEMY Symposium 2024
15:15 – 16:50	CEREMONY PART 1 (only students who participated in the activities shown below) Results of MATH Poster Design 2024 Competition Results of MATH Theatre Europe 2024 Results of MATHFactor Europe 2024 Results of MATHPresentation 2024 Competition
17:00 – 18:20	CEREMONY PART 2 (only students who participated in the activities shown below) Results of SCIENCE Poster Design 2024 Competition Results SCIENCEPresentation 2024 Competition Results of SCIENCE Theatre Europe 2024 Results of SCIENCEFactor Europe 2024
18:30	BUSES to official hotels are expected to depart at 18.30
Saturday, 16 March 2024	
All day	Departures