Second Congress of Greek Mathematicians SCGM-2022

July 4 - 8, 2022

School of Applied Mathematical and Physical Sciences, National Technical University of Athens

Scientific Programme

	Monday, July 4th, 2022 morning
	Lecture Hall, Administration Building
09:00	Pogistrations
10:30	Registrations
10.30	Opening Coromony
11:30	Opening Ceremony
11:30	Coffee Break
12:30	Coffee break
12:30	Constantinos Dafermos, Brown University
13:30	Progress in Hyperbolic Conservation Laws

	Monday, July 4 th , 2022 afternoon
	Amphitheatre 1, SAMPS building
	Session: Analysis
15:00	A strong form of Plessner's theorem
15:30	Myrto Manolaki (University College Dublin)
15:30	Harmonic mappings and the Schwarzian derivative
16:00	lason Efraimidis (Universidad Autónoma de Madrid)
16:00	Coffee Break
16:30	Coffee break
16:30	Προς τα πίσω τροχιές σε ημιομάδες ολόμορφων συναρτήσεων
17:00	Konstantinos Zarvalis (Aristotle University of Thessaloniki)
17:00	Spherically Convex Functions and Schwarz Lemma
17:30	Maria Kourou (Julius-Maximilians University of Wuerzburg)
17:30	Closed range integral operators on Hardy spaces
18:00	Konstantinos Panteris (University o Crete)
	Semigroups of analytic functions and an extension to Sarason's characterization
18:00	of vanishing mean oscillation
18:30	Vassilis Daskalogiannis (Aristotle University of Thessaloniki & American College
	of Thessaloniki)
18:30	Invariant capacities in the unit ball of C ⁿ and exceptional sets for Hardy Sobolev
19:00	spaces
20.00	Nikolaos Chalmoukis (Saarland University)

	Monday, July 4 th , 2022 afternoon
	Lecture Hall, Administration Building
	Session: Mathematics Education
15:00	Mathematics education and Mathematical communities
15:10	Fragkiskos Kalavasis (University of the Aegean), coordinator, Introduction
15:15 16:45	The impact of scientific journals in mathematics education communities:
17:00 18:30	Critical Values and Thinking in Mathematics Education Anna Chronaki, chair • Penelope Kalogeropoulou (Monash University, Australia): Values in Mathematics Education through an intervention program lens. • Stephanos Keisoglou (Mathematics Educator): Critical thinking meets mathematical competitions. • Stami Tsikopoulou (Mathematics Educator): Mathematical Problems and HumanValues. Thoughts on how Euclid A and Little Euclid address students. • Zoi Dipla (Educator): Playing and making common spaces for learningmathematics. • Anna Chronaki (University of Thessaly & University of Malmo, Sweden): Critical issues concerning values, competences and mathematical thinking for the citizen subject of our precarious times.

	Monday, July 4 th , 2022 afternoon Multimedia room, NTUA Library (basement)
	Session: Geometry and Topology
16:30	Mean curvature flow and homotopy classes of maps between spheres
17:10	Andreas Savas-Halilaj (University of Ioannina)
17:20	An isometric flow of G2 structures
18:00	Panagiotis Gianniotis (National and Kapodistrian University of Athens)
18:00	Break
18:30	Diedk
18:30	Progress on compact homogeneous Einstein manifolds
19:10	Andreas Arvanitoyeorgos (University of Patras)
19:20	A class of Einstein submanifolds of Euclidean space
19:40	Christos-Raent Onti (University of Cyprus)
19:40	On the Bonnet Problem for Surfaces in 4-Dimensional Space Forms
20:00	Kleanthis Polymerakis (Aristotle University of Thessaloniki)

	Monday, July 4 th , 2022 afternoon
	Lecture room 001, new SAMPS building
	Session: Probability and Statistics
16:30 17:30	From multiway ANOVA to Alon's conjecture: complexity of coordinate-wise inference algorithms for crossed random effect models Omiros Papaspiliopoulos (Bocconi University, Milano)
17:30 18:00	Anomaly identification under sequential sampling and sampling constraints Georgios Fellouris (University of Illinois at Urbana-Champaign)
18:00 18:30	Nonparametric and high-dimensional functional graphical models Eftychia Solea (ENSAI)
18:30 19:00	Piecewise Deterministic Monte Carlo and the Speed Up Zig-Zag sampler Giorgos Vasdekis (University of Warwick)

	Monday, July 4th, 2022 afternoon Lecture room 103, new SAMPS building
	Session: Foundations, Philosophy of Mathematics
16:00 16:30	Groups definable in the disjoint union of structures Pantelis Eleftheriou (University of Leeds)
16:30 17:00	Some model theory of the tilting correspondence Konstantinos Kartas (University of Oxford)
17:00 17:30	Pathwise-random trees and models of second-order arithmetic Georgios Barbalias (Chinese Academy of Science)
17:30 18:00	Δυναμικά κριτήρια μη-ταξινόμησης με αναλλοίωτες ομολογίας και συνομολογίας Aristotelis Panagiotopoulos (Carnegie Mellon University)
18:00 18:30	The distributivity of Pi over Sigma: from Martin-Loef types and Bishop sets to categories losif Petrakis (Ludwig Maximilians Universität München)
18:30 19:00	First-order sentences in random groups Ρίζος Σκλήνος , (Chinese Academy of Science)
19:00 19:30	Decidability results of subtheories of polynomial rings and formal power series Δήμητρα Χομπιτάκη (Πανεπιστήμιο Κρήτης)
19:30 20:00	Χτίζοντας τις μαθηματικές θεωρίες Δήμητρα Χριστοπούλου (Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών)

	Tuesday, July 5th, 2022 morning Amphitheatre 1, SAMPS building
	Session: Analysis
09:30 10:10	The Dirichlet problem with Sobolev boundary data for the Laplace equation in rough domains Mihalis Mourgoglou (University of the Basque Country)
10:10 10:50	Directional square functions Ioannis Parissis (University of the Basque Country and Ikerbasque)

	Tuesday, July 5th, 2022 morning Multimedia room, NTUA Library (basement)
	Session: Geometry and Topology
09:30	Realising sets of integers as mapping degree sets
10:10	Christoforos Neofytidis (The Ohio State University)
	On the forgotten definition of homology of a space via configuration space of
10:20	charged particles
11:00	Stephan Klaus (University of Mainz and Mathematisches Forschungsinstitut
	Oberwolfach)

	Tuesday, July 5th, 2022 morning Lecture room 001, new SAMPS building
	Session: Probability and Statistics
09:00 10:00	Mean field limits for weakly interacting diffusions: phase transitions, multiscale analysis and inference Grigorios A. Pavliotis (Imperial College, London)
10:00 10:30	Model-free bounds in finance: a journey through probability, statistics andoptimization Antonios Papapantoleon (Technical University, Delft)
10:30 11:00	Mean field analysis and scaling limits for neural networks: typical events and fluctuations Konstantinos Spiliopoulos (Boston University)

	Tuesday, July 5th, 2022 morning Lecture Hall, Administration Building
11:00	Coffee Break
11:30	
	Plenary Talks
11:30	Dimitris Koukoulopoulos, University of Montreal
12:30	Random walks in number theory
12:30	Efstratia Kalfagianni, Michigan State University
13:30	Geometric structures of 3-manifolds and quantum invariants

	Tuesday, July 5 th , 2022 afternoon
	Lecture Hall, Administration Building
	Plenary Talk
15:00 16:00	Ioannis Emiris, National Kapodistrian University of Athens On the number of Euclidean embeddings of rigid graphs
16:00 16:30	Coffee Break
	Tuesday, July 5 th , 2022 afternoon
	Amphitheatre 1, SAMPS building
	Session: Analysis
16:30	Dimension reduction for incompressible subsets of I_p
17:00	Alexandros Eskenazis (CNRS Sorbonne Université & University of Cambridge)
17:00	Improving and maximal inequalities for primes in progressions
17:30	Christina Giannitsi (Georgia Institute of Technology)
17:30	The size of a common tile of several lattices
18:00	Effie Papageorgiou (University of Crete) The distribution of reduced quadratic irrationals arising from continued fraction
18:00	expansions
18:30	Maria Siskaki (University of Illinois at Urbana-Champain)
18:30	Codimension one multiplier operators
19:00	Odysseas Bakas (Basque Center for Applied Mathematics)

	Tuesday, July 5 th , 2022 afternoon Multimedia room, NTUA Library (basement)
	Session: Geometry and Topology
16:50 17:10	On local density and local weak density of the hyperspace of sets withfinitely many components Foteini Sereti (University of Western Macedonia)
17:20 18:00	A report on the Dimension Theory in Topology and the dimension Dind of A. V. Arhangelskii for finite TO-topological spaces Dimitrios Georgiou (University of Patras)
18:00 18:30	Break
18:30 19:10	Simplicial volumes and Euler characteristics of (aspherical) manifolds Georgios Raptis (University of Regensburg)
19:20 20:00	Topological Rigidity of Quoric Manifolds Stratos Prasidis (University of the Aegean)

	Tuesday, July 5 th , 2022	afternoon
	Lecture room 001, new SAI	MPS building
	Session: Probability and	Statistics
16:30	Statistical Distances: A Global Framewo	rk for Inference
17:30	Marianthi Markatou (University a	at Bufallo)
17:30	Quantitative Uniform Stability of the Iterative Prop	portional Fitting Procedure
18:00	George Deligiannidis (University of	of Oxford)
18:00	Noise-Induced Randomization in Regression I	Discontinuity Designs
18:30	Nikos Ignatiadis (Stanford Univ	versity)

	Tuesday, July 5 th , 2022 afternoon	
	Lecture room 003, new SAMPS building	
	Session: Differential Equations	
16:30	Analogies between minimal partitions and entire solutions of the vector Allen-	
17:10	Cahnequation	
17:10	N. Alikakos (University of Athens)	
17:15	The fractional porous medium equation on manifolds with conical singularities	
17:45	N. Roidos (University of Patras)	
17:45	Break	
18:00	Dreak	
18:00	The monotonicity formula of the stochastic mean curvature flow of graphs	
18:30	D. Antonopoulou (Chester University, UK)	
18:30	Regularisation of differential equations by noise	
19:00	K. Dareiotis (University of Leeds, UK)	
19:00	A non-local free boundary problem arising in a model of cell polarization	
19:30	A. Logioti (University of Bonn, Germany)	
19:30	Layer dynamics for the one-dimensional ε-dependent Cahn-Hilliard/Allen-Cahn	
	equation	
20:00	K. Tzirakis (IACM/FORTH & University of Crete)	

	Tuesday, July 5 th , 2022 afternoon	
	Lecture Hall, Administration Building	
	Session: Mathematics of Computer Science	
16:30	Random Walks over Chains of Blocks	
17:30	Aggelos Kiayias (University of Edinburgh)	
17:30	Towards post-quantum cryptography	
18:00	Katerina Sotiraki (UC Berkeley)	
18:00	Multiplicative Updates for Symmetric-cone Factorizations	
18:30	Antonios Varvitsiotis (Singapore University of Technology and Design)	
18:30	Truthful mechanisms for scheduling problems	
19:00	Giorgos Christodoulou, (Aristotle University)	

	Wednesday, July 6 th , 2022 morning Amphitheatre 1, SAMPS building
	Session: Analysis
09:30	Morita equivalence for operator systems
10:10	Evgenios Kakariadis (University of Newcastle)
10:10	Lower deviation estimates for norms
10:50	Petros Valettas (University of Missouri, Columbia)

	Wednesday, July 6 th , 2022 morning Multimedia room, NTUA Library (basement)
	Session: Geometry and Topology
09:30	Curvature in Courant algebroids and Graded Geometry
10:10	Panagiotis Batakidis (Aristotle University of Thessaloniki)
10:20	A nonlinear spectrum on closed manifolds
11:00	Christos Mantoulidis (Rice University)

	Wednesday, July 6 th , 2022 morning
	Lecture Hall, Administration Building
	Session: Mathematics of Computer Science
09:00	Intrinsic complexity
10:00	Yiannis N. Moschovakis (UCLA)
10:00	Efficient Algorithms for Graph Connectivity Problems
10:30	Loukas Georgiadis (University of Ioannina)
10:30	From Structural Graph Theory to Algorithms
11:00	Archontia Giannopoulou (National and Kapodistrian University of Athens)

	Wednesday, July 6 th , 2022 morning Lecture room 101, new SAMPS building
	Session: Algebra, Number Theory and Combinatorics
09:00	On self-extensions of irreducible modules over symmetric groups
10:00	Haralampos Geranios (University of York)
10:15	On the existence of minimal models
10:45	Nikolaos Tsakanikas (Saarland University)

	Wednesday, July 6 th , 2022 morning
	Lecture room 001, new SAMPS building
	Session: Numerical Analysis and Scientific Computing
09:00 10:00	Likelihood-weighted active learning with application to Bayesian optimization, uncertainty quantification, and decision making in high dimensions Th. Sapsis (Massachusetts Institute of Technology)
10:00 10:30	Optimization with learning-informed nonsmooth differential equation constraints K. Papafitsoros (Weierstrass Institute Berlin)
10:30 11:00	Learning the solution operator of parametric partial differential equations P. Perdikaris (University of Pennsylvania)

	Wednesday, July 6 th , 2022 morning Lecture Hall, Administration Building
11:00 11:30	Coffee Break
	Plenary Talks
11:30 12:30	Georgios Akrivis, University of Ioannina Analysis of numerical methods in the maximal parabolic regularity framework
12:30 13:30	Dimitrios Bertsimas, Massachusetts Institute of Technology Machine Learning under a Modern Optimization Lens

	Wednesday, July 6 th , 2022 afternoon Lecture Hall, Administration Building
	Plenary Talk
15:00	Perla Sousi, University of Cambridge
16:00	Picking a spanning tree at random
16:00 16:30	Coffee Break

	Wednesday, July 6 th , 2022 afternoon
	Amphitheatre 1, SAMPS building
	Session: Analysis
16:30	Separable spaces of continuous functions as Calkin algebras
17:00	Pavlos Motakis (York University)
17:00	Multiple ergodic averages along sequences of polynomial growth
17:30	Konstantinos Tsinas (University of Crete)
17:30	A negative moments approach to the study of sections of convex bodies
18:00	Giorgos Chasapis (Carnegie Mellon University)
18:00	The percolation density $artheta(p)$ is analytic
18:30	Christoforos Panagiotis (University of Geneva)
18:30	Dynamics of weighted shifts on directed trees
19:00	Dimitris Papathanasiou (Université de Mons)

	Wednesday, July 6 th , 2022 afternoon
	Multimedia room, NTUA Library (basement)
	Session: Geometry and Topology
16:30	Morse foliations of codimension one on the sphere S ³
17:10	Charalampos Charitos (Agricultural University of Athens)
17:20	A specific model of Hilbert geometry on the open unit disc
18:00	Georgios Tsapogas (Agricultural University of Athens)
18:10	Inverse Problems for the X-ray Transform on Asymptotically Hyperbolic Manifolds
18:30	Nikolaos Eptaminitakis (Purdue University)
19:20	(in-)Stability of the Anti-de Sitter spacetime and time-periodic solutions
19:40	Athanasios Chatzicaleas (University of Muenster)

	Wednesday, July 6 th , 2022 afternoon	
	Lecture room 001, new SAMPS building	
	Session: Probability and Statistics	
16:30	Longest and heaviest paths in random directed graphs	
17:30	Takis Konstantopoulos (University of Liverpool)	
17:30	Density functionals for inhomogeneous system	
18:00	Dimitrios Tsagkarogiannis (University of L'Aquila)	
18:00	Sharp spectral gap for regular and disordered chain of oscillators	
18:30	Aggeliki Menegaki (Institut des Hautes Études Scientifiques, Paris)	
18:30	Some recent progress on the properties of Schramm-Loewner Evolution (SLE)	
19:00	Konstantinos Kavvadias (University of Cambridge)	

	Wednesday, July 6 th , 2022 afternoon	
	Lecture room 103, new SAMPS building	
	Session: Differential Equations	
16:30 17:10	Existence theory and propagation of oscillations for the system of viscoelasticity of strain-rate type A. Tzavaras (KAUST, Applied Mathematics and Computational Science)	
17:15 17:45	The Closeness of the Ablowitz-Ladik Lattice to non-integrable DNLS Lattice N. Karachalios (University of Thessaly)	
17:45 18:15	Break	
18:15 18:45	The inverse acoustic scattering problem via stochastic implementation A. Charalambopoulos (NTUA)	
18:45 19:15	Scale invariant regularity estimates for second order elliptic equations with lower ordercoefficients in optimal spaces G. Sakellaris (Aristotle University of Thessaloniki)	
19:15 19:45	A numerical solution for various lateral Cauchy problems L. Mindrinos (NTUA)	

	Wednesday, July 6 th , 2022 afternoon	
	Lecture Hall, Administration Building	
	Session: Mathematics of Computer Science	
16:30	The Dynamics of Artificial Intelligence	
17:00	Panayotis Mertikopoulos (CNRS)	
17:00	Evolutionary Graph Theory: Amplification and Optimization	
17:30	Andreas Pavlogiannis (Aarhus University)	
17:30	Strongly Polynomial Time Algorithms for Learning Halfspaces and Approximate	
18:00	Forster Transforms	
10.00	Christos Tzamos (University of Wisconsin-Madison)	
18:00	How to handle Biased Data and Multiple Agents in Machine Learning?	
18:30	Manolis Zampetakis (UC Berkeley)	
18:30	Incentive-Aware Machine Learning for Decision Making	
19:00	Chara Podimata (MIT)	

	Wednesday, July 6 th , 2022 afternoon	
	Lecture room 101, new SAMPS building	
	Session: Algebra, Number Theory and Combinatorics	
16:30	The Generic Anisotropy of Simplicial 1-Spheres	
17:00	Vasiliki Petrotou (University of Ioannina)	
17:00	Connected algebraic subgroups of Bir($C \times P^n$) not contained in a maximal one.	
17:30	Sokratis Zikas (University of Basel)	
17:30	Tamagawa numbers of elliptic curves with torsion points	
18:00	Mentzelos Melistas (Steklov Mathematical Institute)	
18:00	Break	
18:30	Dieak	
18:30	Gorenstein decomposable models	
19:00	Danai Deligeorgaki (KTH)	
19:00	Counting with symmetric and quasisymmetric functions	
19:30	Basileios-Dionysios Moustakas (Bar-Ilan University)	
19:30	Quadratic robust and generalized robust toric ideals of graphs	
20:00	Christos Tatakis (University of Ioannina)	

	Thursday, July 7 th , 2022 morning Amphitheatre 1, SAMPS building
	Session: Analysis
09:30	The Denjoy-Wolff set and wandering domains
10:10	Vasiliki Evdoridou (University of Liverpool)
10:10	Analysis on thin Cantor sets
10:50	Vyron Vellis (University of Tennessee, Knoxville)

	Thursday, July 7 th , 2022 morning
	Multimedia room, NTUA Library (basement)
	Session: Geometry and Topology
09:30	Rail knotoid invariants
10:10	Dimitrios Kodokostas (National Technical University of Athens)
10:20	Framed Thomson Groups
11:00	Aristides Kontogeorgis (National and Kapodistrian University of Athens)

	Thursday, July 7 th , 2022 morning
Lecture room 001, new SAMPS buildi	
	Session: Numerical Analysis and Scientific Computing
09:00 09:30	Embedding classical dynamics in a quantum computer D. Giannakis (New York University)
09:30 10:00	A relaxation scheme for the numerical approximation of the Schrödinger-Poisson system Th. Katsaounis (University of Crete & IACM/FORTH)
10:00 10:30	A hybrid FV/FE method for weakly dispersive highly nonlinear waves on unstructured meshes M. Kazolea (INRIA, University of Bordeaux, CNRS)
10:30 11:00	A nonconforming finite element for ice shelf hydroelastic flexure Th. Papathanasiou (Aston University)

	Thursday, July 7 th , 2022 morning Lecture room 101, new SAMPS building
	Session: Algebra, Number Theory and Combinatorics
09:00 10:00	Torsion phenomena for zero-cycles on a product of curves over a number field Valia Gazaki (University of Virginia)
10:15 10:45	Relating homomorphism spaces between Specht modules of different degrees Dimitra-Dionysia Stergiopoulou (National and Kapodistrian University of Athens & University of Thessaly)

	Thursday, July 7 th , 2022 morning
	Lecture Hall, Administration Building
11:00 11:30	Coffee Break
	Plenary Talks
11:30	Maria Chlouveraki, University of Versailles-St Quentin
12:30	The symmetric group: mysteries and miracles
12:30	Nikolaos Frantzikinakis, University of Crete
13:30	Randomness properties of bounded sequences: An ergodic point of view

	Thursday, July 7 th , 2022 Lecture Hall, Administratio	afternoon n Building
	Plenary Talk	
15:00	Ioannis Kontoyiannis, University of	Cambridge
16:00	Entropy in probability and additive combinatorics	
16:00 16:30	Coffee Break	

	Thursday, July 7 th , 2022 afternoon
	Amphitheatre 1, SAMPS building
	Session: Analysis
16:30 17:00	A scale-critical trapped surface formation criterion for the Einstein-Maxwell system Nikolaos Athanasiou (American College of Thessaloniki)
17:00 17:30	Περιοδικές λύσεις και νήσοι ευστάθειας στον Anti-de Sitter χωροχρόνο Athanasios Chatzikaleas (University of Münster)
17:30 18:00	The anomalous spreading property for a system of Fisher-KPP type equations Alexandra Stavrianidi (Stanford University)
18:00 18:30	On the well-posedness of the derivative nonlinear Schrödinger equation Maria Ntekoume (Rice University)
18:30 19:00	Geometric rigidity in variable domains and applications to SDRI models Konstantinos Zemas (University of Münster)

	Thursday, July 7 th , 2022 afternoon	
	Multimedia room, NTUA Library (basement)	
	Session: Geometry and Topology	
16:30	Kauffman bracket skein modules: A braid theoretic approach	
17:10	Ioannis Diamantis (Maastricht University, The Netherlands)	
17:20	Invariants of multi-linkoids and bondoids	
18:00	Boštjan Gabrovšek (University of Ljubljana	
18:10	On the spectrum of twisted Laplacians and the Teichmüller representation	
18:30	Polyxeni Spilioti (Aarhus University)	

	Thursday, July 7 th , 2022 afternoon
	Lecture Hall, Administration Building
	Session: Mathematics of Computer Science
16:00	Christos Papadimitriou (Columbia University)
17:00	Christos Papaulinitiou (Columbia Oniversity)
17:00	Constantinos Daskalakis (MIT)
18:00	
18:00	On the Hidden Geometry of Datasets and Approximate Metric Embeddings
18:30	Vaggos Chatziafratis (University of California Santa Cruz)
18:30	Spectral Ranking Regression
19:00	Stratis Ioannidis (Northeastern)

	Thursday, July 7 th , 2022 afternoon Lecture room 103, new SAMPS building
	Session: Differential Equations
16:30	Simple solutions in anisotropic elasticity
17:10	G. Dassios (University of Patras)
17:15	The emergence of weak turbulence in general relativiy
17:45	G. Moschidis (Princeton University, USA)
17:45	Break
18:15	Dican
18:15	Feedback control of the 1d viscous Saint-Venant model
18:45	I. Karafyllis (NTUA)
18:45	An inequality regarding completely monotone functions
19:15	V. Bitsouni (University of Athens)
19:15	Quasilinear elliptic equations involving absorption terms and measure data
19:45	K. Gkikas (University of Athens)

	Thursday, July 7 th , 2022 afternoon
	Lecture room 001, new SAMPS building
	Session: Numerical Analysis and Scientific Computing
16:30 17:00	Lyapunov functions, convergence to equilibrium and applications to sampling and optimization K. Zygalakis (University of Edinburgh)
17:00 17:30	Inference methods for stochastic differential equation)ns and application E. Kalligiannaki (IACM/FORTH)
17:30 18:00	Multiscale simulations of complex systems by learning their effective dynamics G. Arambatzis (ETH, Zürich)
18:00 18:30	Break
18:30 19:00	Preconditioning techniques for Non-Symmetric Real Toeplitz Systems D. Noutsos (University of Ioannina)
19:00 19:30	F. Karakatsani (University of Ioannina)
19:30 20:00	Advances in finite element computation and analysis of PDE systems within random geometries based on Embedded FEMs and applications E. Karatzas (National Technical University of Athens)

	Thursday, July 7 th , 2022 afternoon
	Lecture room 101, new SAMPS building
	Session: Algebra, Number Theory and Combinatorics
16:30	Reduction of stabilizers and generalized Donaldson-Thomas invariants
17:30	Michail Savvas (University of Texas at Austin)
17:30	Reedy categories and finite dimensional algebras
18:00	Georgios Dalezios (National and Kapodistrian University of Athens)
18:00 18:30	Break
18:30	Nakayama algebras and 321-avoiding permutations
19:00	Eirini Chavli (University of Stuttgart)
19:00	Finite group schemes acting on schemes
19:30	Kostas Karagiannis (University of Manchester)
19:30	Geometry of p-adic representations
20:00	Kostas I. Psaromiligkos (The University of Chicago)

	Friday, July 8 th , 2022 morning Multimedia room, NTUA Library (basement)
	Session: Geometry and Topology
09:30	Differential structures on topological spaces. A categorical approach
10:10	Maria Papatriantafillou (National and Kapodistrian University of Athens)
10:20	Spinor pairs and the concentration principle for Dirac operators
11:00	Manousos Maridakis

	Friday, July 8 th , 2022 morning
	Lecture room 001, new SAMPS building)
	Session: Numerical Analysis and Scientific Computing
09:00 10:00	E. Gallopoulos (University of Patras)
10:00 10:30	On the numerical approximation of partial differential equations with logarithmic non-linearity G. Zouraris (University of Crete)
10:30	Imaging in three-dimensional waveguides with partial-aperture data
11:00	D. Mitsoudis (University of West Attica & IACM/FORTH)

	Friday, July 8 th , 2022 morning Lecture room 101, new SAMPS building)
	Session: Algebra, Number Theory and Combinatorics
09:00 10:00	Adjoining roots to ring spectra and algebraic K-theory. Tasos Moulinos (Institut de Mathématiques de Toulouse)
10:15 10:45	A canonical ideal approach to the deformation theory of curves with automorphisms Alexios Terezakis (National and Kapodistrian University of Athens)

	Friday, July 8 th , 2022 morning Lecture room 103, new SAMPS building
	Session: The History of Mathematics
09:00 09:30	From 'theory' to 'precision': numerical calculations in the early post-Christian centuries Francesca Papanika
09:30 10:00	Identifying the parts of a proposition in Euclid's Elements using machine learning algorithms Vasilios Siochos
10:00 10:30	Byzantine mathematics as the constant sideliner: where do the Mathematics of the Eastern Empire stand in the history of the Medieval Mathematical world Athanasia Megremi
10:30 11:00	Antagonism as Essential Part of Ancient Greek Milieu: The case of Mathematics Michalis Sialaros

	Friday, July 8 th , 2022 morning
	Lecture Hall, Administration Building
11:00 11:30	Coffee Break
	Plenary Talks
11:30 12:30	Spyridon Alexakis, University of Toronto Reconstructing a Riemannian metric form geodesic data: The problem of lens rigidity
12:30 13:30	Panagiotis Souganidis, University of Chicago Deterministic surface growth models

	Friday, July 8 th , 2022 afternoon
	Lecture room 101, new SAMPS building
	Session: Algebra, Number Theory and Combinatorics
15:00	K-Absolutely pure complexes
15:30	Ilias Kaperonis (National and Kapodistrian University of Athens)
15:30	Syzygies and curves
16:00	Ioannis Tsouknidas (National and Kapodistrian University of Athens)
16:00	Coffee Break
16:30	Coffee break
16:30	Introduction to Zastava spaces
17:00	Andreas Hayash (University of Massachusetts Amherst)
17:00	Some classification results in higher-dimensional Auslander–Reiten theory
17:30	Laertis Vaso (NTNU)
17:30	Break
18:00	DICAN
18:00	On the linearity of fundamental groups of certain graph of groups with free
18:30	abelian vertex groups
10.30	Dafni Tsipa (University of the Aegean)
18:30	Algebraic Dirac operators and Dirac cohomology
19:00	Spyros Afentoulidis (Université de Lorraine, Metz)