



HELLENIC REPUBLIC
**National and Kapodistrian
University of Athens**
— EST. 1837 —

5th Symposium on “Hypercompositional Algebra-new Developments and Applications”

1st day: Monday, 2.6.2025, chair assoc.prof. Irina Cristea

9:45 Opening the event

10:00 Christos Massouros and Gerasimos Massouros “*On the class of Transposition Hypergroups*”

10:30 Charalampos Tsitouras “*AI Tools and the Exploration of Hypercompositional Structures in Algebra*”

11:00 Spyridon Vossos, Elia Vossos “*Can Hypercompositional Algebra Contribute to the Resolution of the Unsolved Problems of Modern Physics?*”

11:30-14:00 Break

14:00 Madeleine Al-Tahan “*Anti-ideal Theory in Algebraic Structures and Their Fuzzifications*”

14:30 Burcu Nişancı Türkmen “*Supplementing Krasner Hypermodules*”

15:00 Ergül Türkmen “*On Normal Projective (Injective) Krasner Hypermodules*”

15:30 End of first day sessions

2nd day: Tuesday, 3.6.2025, chair assist.prof. Hashem Bordbar

10:00 Antonios Kalampakas “*Fuzzy Graph Hyperoperations*”

10:30 Bianca Bercea-Straton “*Construction of Finite Fields and Hyperfields*”

11:00 Anton Nukulović “*Some Classes of Hypernear-rings*”

11:30-14:00 Break

14:00 Temitope Gbolahan Jaiyeola “*Analysis of Weak Associativity in Some Algebraic Hypercompositional Structures that Represent Dismutation Reactions*”

14:30 Oyeyemi Oluwaseyi Oyebola “*On the Study of Extra Polyloop-3 and its Algebraic Properties*”

15:00 Hugo Luiz Mariano “*Linear (Multi) Algebra I: Linear Systems, Matrices and Vector Spaces over Superfields*”

15:30 End of the second day sessions

3rd day: Wednesday, 4.6.2025, chair prof. Charalampos Tsitouras

10:00 Andromeda Sonea-Pătraşcu “*Fuzzy Aspects in Biological Inheritance*”

10:30 Enrico Talotti “*Encoding Hypercompositional Algebra through binary strings*”

11:00 Hanna Stojakowska “*On the Generation of Finite Real Hyperfields with Cyclic Positive Cones*”

11:30 End of the third day sessions

4th day: Thursday, 5.6.2025, chair prof. Christos Massouros

10:00 Alessandro Linzi “*On the Notion of Algebraically Closed Hyperfields*”

10:30 Hashem Bordbar TBA

11:00-14:30 Break

14:30 Marcelo Esteban Coniglio “*On Morgado and Sette's Implicative Hyperlattices as Models of da Costa Logic C_ω* ”

15:00 Kaique Roberto “*Hyper Swap Structures*”

15:30 Guilherme Toledo “*Weakly Free Multialgebras*”

16:00 End of the fourth day sessions

5th day: Friday, 6.6.2025, chair prof. Christos Massouros

10:00 Violeta Fotea “*The Fuzzy Grade of a Certain Class of Hypergroups*”

10:30 Irina Cristea “*Arithmetic functions on complete hypergroups*”

11:00 Round table and closing remarks