

# HyperComplex Seminar 2023 (9th - 15th July 2023)

(Free Access BY ZOOM!/: Hypercomplex Seminar 2023 on Fundamental Modelling)

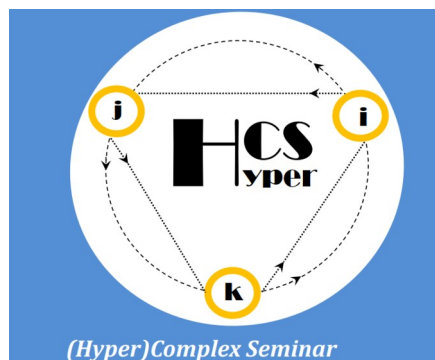
Hypercomplex YouTube Channel: [ <https://www.youtube.com/@hypercomplexseminar> ]

WEBPAGE: [ <http://www.hypercomplexseminar.com/> ]

ZOOM Link: [ <https://researchseminars.org/seminar/HCS2023> ]

Registration via:  
[HyperComplexSeminar@gmail.com](mailto:HyperComplexSeminar@gmail.com)

The conceptual timetable for  
**Hypercomplex Seminar 2023**  
in Fundamental Modelling



<b>Opening Ceremony for Hypercomplex Seminar 2023 [9.07.2023]: Day1 (Session1,2)</b>	<b>(A) Mathematics: Quaternionic Analysis &amp; Differential Equations [10-11.07.2023]: Day2 and Day3 (Session1,2 and 3)</b>	<b>(B) Physics: Classical &amp; Quantum [12.07.2023]: Day4 (Session1,2,3)</b>	<b>(C) Informatics: Classical &amp; Quantum [13.07.2023]: Day5 (Session1,2,3)</b>	<b>(D) Classical and Quantum Electronics [14-15.07.2023]: Day6 (Session1,2,3)</b>
<b>(D1.S1): Lecture on Quaternions [18:00-19:00]</b>	<b>(D2.S1, D3.S1): (Hyper)complex analysis [10:00-12:00]</b>	<b>(D4.S1): Physics, Statistics &amp; HyperComplex analysis [10:00-12:00]</b>	<b>(D5.S1): Classical/Quantum Machine Learning [10:00-12:00]</b>	<b>(D6.S1): Q-Sensing+ Q-Modeling [10:00-12:00]</b>
<b>(D1.S2): Lecture on Mathematical Structures in Physics and Technical Sciences [19:00-20:00]</b>	<b>(D2.S1, D3.S2): Non-linear ODEs and PDEs and integro-differential equations in hypercomplex framework [ 13:00-15:00 ]</b>	<b>(D4.S2): Ontology of Quantum Mechanics [ 13:00-15:00 ]</b>	<b>(D5.S1): Quantum Games and Quantum Programs [ 13:00-15:00 ]</b>	<b>(D6.S2): Q-Hardware in Semiconductors and in Superconductors [ 13:00-15:00 ]</b>
<b>(D1.S3): Virtual Social Evening [19:00-20:30]</b>	<b>(D2.S3, D2.S3): Complex mathematical structures [15:30-16:30]</b>	<b>(D4.S3): DISCUSSION PANEL I [15:30-16:30]</b>	<b>(D5.S3): Student Presentations [15:30-16:30]</b>	<b>(D6.S3): DISCUSSION PANEL II [15:30-16:30]</b>

ORGANIZED BY LODZKIE TOWARZYSTWO NAUKOWE JOINTLY WITH ORGANIZING

COMMETTE: dr. hab. Dariusz Partyka<sup>1</sup>, dr. Malgorzata Nowak<sup>1</sup>, dr. Andrzej Michalski<sup>1</sup> (1: Catholic University of Lublin), dr hab. Mariusz Zubert<sup>2</sup> (2: University of Technology), dr. Krzysztof Pomorski<sup>3,4</sup> (3: Cracow University of Technology, 4: Quantum Hardware Systems): [www.quantumhardwaresystems.com](http://www.quantumhardwaresystems.com), <https://www.youtube.com/@quantumhardwaresystems1390>.

PROCEEDINGS in *Bulletin de la Société des Sciences et des lettres de Łódź, Série: Recherches sur les déformations* & Elsevier: Mathematics and Computers in Simulation & MDPI QUANTUM REPORTS: Special issue: Superconducting Quantum Devices.