



PROGRAM

Thursday 8 June 2023

08h30-09h30	Registration
09h30-10h00	Opening Ceremony
10h00-10h30	Tea Break
10h30-11h10	Plenary Conference 1: Dirac & Topological Phases in Advanced quantum matter. Pr. Lalla Btissam Drissi - University of Mohammed V Chairman: Pr. Rachid Amrousse
11h10-11h50	Plenary Conference 2: Effects of the Space Weather. Pr. Hamid Nebdi – University of Chouaïb Doukkali Chairman: Pr. Ali El Afif
11h50-13h15	Oral Presentations: OP1, OP2, OP3, OP4, OP5, OP6 & OP7 Chairman: Pr. Ahmed RTIBI & Pr. Youness CHRAFIH
13h15-14h30	Lunch
14h30-15h10	Plenary Conference 3: Orthosymplectic Matter on Lattice: Constraints and solutions Pr. El Hassane Saidi – University of Mohammed V Chairman: Pr. Lalla Btissam Drissi
15h10-16h10	Oral Presentations: OP8, OP9, OP10, OP11, OP12, OP13, OP14 & OP15 Chairman: Pr. Lalla Btissam Drissi & Pr. Mohammed El Falaki
16h30-17h00	Tea Break and Poster Session
17h00-18h30	Oral Presentations: OP16, OP17, OP18, OP19, OP21, OP22 & OP23 Chairman: Pr. Fatima Ezzahra Ramadan & Pr. Mohcine Drissi El Bouzaidi

Friday 9 June 2023

09h30-10h10	Plenary Conference 4: Energetic Materials as Sources for Space Exploration. Pr. Rachid Amrousse – University of Chouaïb Doukkali Chairman: Pr. Mohammed Barkatou
10h10-10h30	Tea Break and Poster Session
10h30-11h50	Oral Presentations: OP24, OP25, OP26, OP27, OP28, OP29 & OP30 Chairman: Pr. Fatiha Miskane & Pr. Fayçal Goumrhar
11h50-12h00	Closing Ceremony

PROGRAM



MAdMD2023

8-9 June 2023, El Jadida, MOROCCO



Session 1	11h50-13h15
Chairman:	Pr Ahmed RTIBI
11h50-12h	Armchair and zigzag chirality-dependent thermal properties of graphene multilayers nanoribbons Speaker : Fatima Zahra ZANANE
12h-12h10	Studying the thermomechanical characteristics and mechanism of failure of 2D hexagonal boron oxide Speaker : Mohamed SAAOUD
12h10-12h20	Electron-Phonon Superconductivity in Boron-Based Chalcogenide (X= S, Se) Monolayers Speaker : Ilias SERIFI
12h20-12h30	Étude des propriétés électroniques, magnétiques, optiques et de transport du matériau SnO2 Rutile dopé avec le couplage Eu-Gd : Aperçu du premier principe Speaker : Wiam AMGHAR
Chairman:	Pr Youness CHRAFIH
12h30-12h40	Half-metallic Antiferromagnetic (HM-AFM) Sr ₂ TcReO ₆ : a Promising candidate for Optoelectronics and Thermoelectric applications via the DFT method Speaker : Salma LAGHZAoui
12h40-12h50	Investigation of magnetic properties of (Fe-Ni) core-shell nanostructures based on Heisenberg model: Monte Carlo simulations Speaker : Abderrahmane EL GHAZRANI
12h50-13h	Benchmarking study and an energy-economic evaluation of hydrogen production from two sources: electrolysis and biomass Speaker : Majdouline BAGY

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Session 2	15h10-16h10
Chairman:	Pr Lalla Btissam DRISSI
15h10-15h20	Swampland constraints on AdS ₃ gravity Landscape Speaker : Rajae SAMMANI
15h20-15h30	Gravitational fine-grained entropy Speaker : Safae TARIQ
15h30-15h40	Characterization of quantum entanglement in quantum states manifold Speaker : Jamal ELFAKIR
15h40-15h50	The union of non-lipschitz domains which satisfy some geometric properties. Speaker : Hatim HIZAZI
Chairman:	Pr Hanane EL HADFI
15h50-16h	Metrological strategies for estimating phase parameters of a three-level system interacting with two classical monochromatic fields Speaker : Nour-Eddine ABOUELKHIR
16h10-16h20	Etude de l'intrication d'un système a spins mixtes dans le modèle d'Heisenberg Speaker : Safae GAIDI
16h20-16h30	Optimizing Phase Estimation with Interleaved Spin Coherent States: Violations and Sensitivity Analysis Speaker : Mohammed ABDELLAOUI
16h30-16h40	Comparing Classical and Quantum Machine Learning Approaches for Diabetes Detection Speaker : Souhaib BEN BOUAZZA
16h40-16h50	Interfacing Discrete and Continuous Variables via Controlled Quantum Teleportation Speaker : Nada IKKEN

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Session 3	17h25-19h
Chairman:	Pr Fatima Ezzahra RAMADAN
17h25-17h35	Modeling and Numerical Solution of Sorption and Permeation Processes In (Clay /Vinyl Ester) Nanocomposite Membranes Speaker : Youness EL RHALI
17h35-17h45	Obtaining Numerical Solutions for Diffusion Equations using Deep Learning Speaker : Soumaya NOUNA
17h45-17h55	Deep learning-based prognostics for lithium-ion battery management systems Speaker : Brahim ZRAIBI
17h55-18h05	Sentiment analysis multiclassification of Moroccan dialect using Multi-scale Discrete Wavelet Transform and Deep learning Speaker : Mhamed-Amine SOUMIAA
Chairman:	Pr Mohcine Drissi EL BOUZAIID
18h05-18h15	Simulation numérique de la photoionisation à deux couleurs de l'atome d'argon : Comparaison de l'approximation d'un seul électron actif (SAE) avec l'expérience Speaker : Soumia CHQONDI
18h25-18h35	Building a progression on the theme of "energy": An analysis of programs and textbooks Speaker : Youssef KARIM
18h35-18h45	Impact of the zero-export energy on the economic side of ONgrid residential PV plant. Case study of Morocco Speaker : Mouhssine RAMI

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Session 4	10h30-11h50
Chairman:	Pr Fatiha MISKANE
10h30-10h40	Change detection from SAR image: A deep learning approach. Speaker : Imad HAMDJ
10h40-10h50	Oil spill detection using radar imaging : Case of Morocco Speaker : Yassine TOUNSI
10h50-11h	Optimizing RF Energy Harvesting with Low-Profile Broadband Flexible Antenna: Modeling and Performance Analysis Speaker : Said DOUHI
11h-11h10	Convolutional neural network for Classification of hyperspectral images(map). Speaker : Assia NOUNA
Chairman:	Pr Fayçal GOURRHAR
11h10-11h20	Contribution à l'étude de l'activité géomagnétique durant les deux derniers cycles solaires (23 et 24) Speaker : Bouchaïb CHAFIK
11h20-11h30	Efficiency gain and the difference between the total global and local works extracted Speaker : Abdelkader EL MAKOURI
11h30-11h40	Transport et performances thermoélectriques des feuilles de Ge-carbure fonctionnalisées au fluor Speaker : Chaymaa KASBAOUI
11h40-11h50	Evolution of dew water, used for PV cleaning, depending on climatic parameters. Speaker : Lassana TRAORE
11h50-12h	A novel method to explore the influence of solvent additives in efficient polymer photovoltaics through impedance spectroscopy Speaker : Soumia ZAIM