

The Scientific Program of the Conference

<i>Timeline</i>	<i>Activity</i>
08:00 – 09:00	Registration & Orientation
09:00 – 09:30	Welcome and Opening Session (Amphitheater, Faculty of Science and Technology, Bloc C)
09:30 – 10:20	Plenary: Prof. S. KERROUCHI (ENSTA) “ <i>Development of educational low-cost solutions for foundational physics learning</i> ”
10:20 – 10:30	CAPS 2024 photo
Poster Session 01 + Coffee Break (2nd Floor):	
10:30 – 11:15	<ul style="list-style-type: none">• <i>AGS Panel Chairs: Dr. LAMALI, Dr. HAMAI</i>• <i>TEP Panel Chairs: Dr. SAHNOUNE, Dr. TOUAIBI</i>• <i>MPRP Panel Chairs: Dr. BENTRIDJI</i>• <i>OLEMP Panel Chairs: Dr. FERMOUS, Dr. BOUDJEMAA,</i>• <i>ANP Panel Chairs: Pr. BENRACHI, Pr. AMRANI, Dr. BENZAID</i>• <i>QCML Panel Chairs: Dr. BOUKABCHA.</i>
11:15 – 13:45	Oral Sessions (Conference Room1, Conference Room2, Conference Room3)
13:45 – 14:45	Lunch
Poster Session 02 + Coffee Break (2nd Floor):	
14:45 – 15:30	<ul style="list-style-type: none">• <i>CCM Panel Chairs: Dr. ELBAA, Dr. HAIRECHE, Dr. OUIR,</i> <i>Dr. HACHOUN, Dr. BOUCHENAFI, Dr. LACHENANI, Dr. OULARAB</i>
15:30 – 15:45	Closing ceremony (Amphitheater)

☪ Oral Sessions ☪

11:15-13:30 Oral Session 1 (Conference room1)	
Atomic and Nuclear Physics	
<i>Chairs: Dr. TAIEBERRAHMANI Dj., Dr. BOUKHENFOUF W.</i>	
11:15 – 11:30	OC-ANP556664: Fatima BENRACHI Beta decay of some A=80 isobars
11:30 – 11:45	OC-ANP556540: Naima AMRANI Approaches to Nuclear Transmutation for Addressing Long-Lived Fission Products
11:45 – 12:00	OC-ANP560784: Nadjet LAOUET Odd N=53 Isotones Gamma Decay Spectroscopic investigations
12:00 – 12:15	OC-ANP556526: Mohamed Walid HALIMI Standard Positron Annihilation Lifetime Spectroscopy Mounting Using Na-22 Radioactive Source
12:15 – 12:30	OC-ANP560758: Saïfi Hanane Study of deformation properties for the even-even Zinc isotopes with A=58 to 80
12:30 – 12:45	OC-ANP552251: Hamad ZIDANI Energy levels and Electromagnetic transitions of nuclei with neutron holes in the 132Sn core
12:45 – 13:00	OC-ANP556449: Abdellah AZIZOU Microscopic description of neutron-rich nuclei around 90Zr
13:00 - 13:15	OC-ANP552176: Amina GHOBRINI Ro-vibrational energies of diatomic molecules using the Trigonometric Pöschl-Teller Potential via Feynman Propagator
13:15 – 13:30	OC-ANP556452: Ismail ZID Rotational vibrational energies of the Nitrogen molecule using the Feynman path integrals formalism
11:15-13:30 Oral Session 2 (Conference room2)	
Computation and Characterization of Materials	
<i>Chairs: Pr. M. SIDOUMOU, Dr. A. BOUMEDIENE, Pr. S BOURAHLA</i>	
11:15 – 11:30	OC-556178: Abdelaali BOUKAOU Experimental and theoretical studies of electronic and vibrational properties of methyl orange
11:30 – 11:45	OC-CCM556571: Warda LASLOUNI Structure and properties of nanocrystalline CuCo obtained by mechanical alloying
11:45 – 12:00	OC-CCM558763: Meriem ALOUI Study of ZnO nanostructures properties for optoelectronic applications
12:00 – 12:15	OC-CCM556131: Sarah TALEB Numerical investigation of a CFRP composite plate using guided waves
12:15 – 12:30	OC-CCM554969: Oumeria KHELLADI Mott Transition under Pressure in the Quasi-1D Iron-Based Compounds: A First-Principles Study
12:30 – 12:45	OC-CCM560710: Nour El-houda DEHIMI Pressure Effect Investigation of Structural, Elastic, Electronic and Magnetic Properties of Rh2CrMg Heusler alloy
12:45 – 13:00	OC-CCM554960: Chaouki SIOUANI Computation of metal-doped semi-metallic nanomaterials properties using ab-initio DFT-based calculations.
13:00 – 13:15	OC-CCM551970: Slimane HAID Computational Investigation of Elasto-Mechanical Stability, Structural and Electromagnetic Properties of Ba2DyTaO6 Ferroelectric Compound

13:15 - 13:30	OC-CCM543288: Kawther MELIANI Structural, electronic, elastic, and magnetic investigation for two Full-Heusler compounds
11:15-13:30 Oral Session 3 (Conference room3)	
Applied Geophysics and Seismology	
<i>Chairs: Dr. MAZOUZA.</i>	
11:15 – 11:30	OC-AGS556054: Athmane LAMALI Field Gamma Ray Spectrometry on the Maâdna structure (Talemzane, Algeria) in assessing hypothetical melt rocks with implications for crater formation process
11:30 – 11:45	OC-AGS555898: Lamine HAMAI 3D gravimetric inversion from the Hammam Righa thermal site
Thermal and Energy Physics	
<i>Chairs: Dr. Mourad MODERESS, Dr. Rachid CHADOU</i>	
11:45 – 12:00	OC-TEP556419: Khaled SAHNOUNE Influence of the blades surface roughness on the flow and the performance of an axial turbine
12:00 – 12:15	OC-TEP530921: Tarek NEHILA Modeling and Simulation of Heat Transfer by Natural Convection with Periodic Heat Source in Fluid-Structure Interaction System
Medical Physics and Radiation Protection	
<i>Chairs: Dr. BENTRIDIS.E</i>	
12:15 – 12:30	OC-MPRP556415: Noureddine TERRANTI Electron Elastic Scattering From Cytosine
12:30 – 12:45	OC-MPRP556716: Houria CHERIEF Optimizing Multi-Layer Shielding Designs Through the Oltaris Program for High Energy Space Radiation
Quantum Computing & Machine Learning / Optics, Lasers, Electromagnetics and Plasmas	
<i>Dr. KERRACIA, Dr. BOUKABCHA.</i>	
12:45 – 13:00	OC-OLEMP556564: ARAB Abdallah: Effects of Adiabatically Trapped Nonthermal Polarization Force on Dressed Dust Acoustic Solitary Waves in Non-Maxwellian Plasma
13:00 - 13:15	OC-QCML552883: SOUIDI Mohamed Abdellah Pulse imitation attack strategy on BB84 Quantum Protocol and Decoy Strategy with QISKIT-IBM
13:00 – 13:30	OC-OLEMP555604: Abderrezag Bendib Effects of the nonlinear inverse bremsstrahlung absorption on the dispersion and damping of electron plasma waves

☪ Poster Session 01 ☪

10:30-11:15 (2nd Floor)

Applied Geophysics and Seismology	
<i>Chairs: Dr. SID Mohamed</i>	
AGS-566466: Zoubir CHATTI: Geophysical investigations of buried remnants at Roman archeological site of eastern Tipaza (Algeria).	
AGS-566468: Abdelmadjid NADJEMI: Understanding the structural context beneath the Maâdna magnetic anomaly (Talemzane, Algeria) based seismic refraction and GPR data analysis	
Thermal and Energy Physics	
<i>Chairs: Dr. SAHNOUNE, Dr. TOUAIBI</i>	
TEP-556368: Assia AMROUCHE: Bound State Solutions of the Dirac Equation with the shifted Deng-Fan Potential using Feynman Path Integral Method	
TEP-544833: Mourad MODERRES: Enhancing Efficiency and Performance of Electro-Solar Plants	

TEP-556413: Hamza ALI AGHA: Impact of Chemical Reaction on MHD Natural Convection Flow in Non-Darcy Porous Medium in Presence of Double Dispersion Effects
TEP-556354: Kenza ZAIBAK: Spectral Analysis on Energy Transfer of Multi-Scale Structures of Turbulence Flow
TEP-556431: Fatima BOUZIDI: Theoretical Investigation of Temperature Impact on the Production of OH Hydroxyls at TiO ₂ rutile surface: steady state case
TEP-556435: Radia BOUDJEMA: Thermal properties of the q-Dirac oscillator in (2 + 1)-dimensions
Medical Physics and Radiation Protection <i>Chairs: Dr. A. MAZOUZ, Dr. S.E. BENTRIDI</i>
MPRP-556516: Mohamed Lyes GHEZALI: Calibration of CT ionization chambers: a new service at SSDL Algiers
MPRP-556512: Silia HAYOUNE: Contribution to the characterization of the FAC-DZ-100 free air ionization chamber: Study of recombination (krec) and air attenuation (katt) correction factors for diagnostic radiology x-ray qualities
MPRP-559122: Mohamed BAKALEM: Development of an electrochemical cell for CR-39 etching
MPRP-559126: Sabrina LEGHMIZI: Further investigations on the front part of a protontherapy beam's SOB
Optics, Lasers, Electromagnetism and Plasmas <i>Chairs: Dr. R. FERMOUS, Dr. F. BOUDJEMAA</i>
OLEMP-556428: Samia AYADI: chaos with low dimension
OLEMP-556510: Cylia BENSALD: Conical biosensor for protein detection: material's effect
OLEMP-553284: Rachid FERMOUS: Dust-acoustic waves in suprathermal polarized dusty plasma
OLEMP-556310: Adel TEKILLI: Effect of Nitrogen Gas Pressures on AlN Plasma Species Evolution
OLEMP-554946: Rima MEBREK: Electrostatic Potential Distributions in the Ionosphere
OLEMP-556400: Sabrina BOUCHERF: Fractional quantum Hall effect of Bose Laughlin Wave Function for Filling Factors $\nu = 1/2, 1/4$ and $1/6$ in Disk Geometry
OLEMP-559020: Abdeldjalil BENSTITI: Generation of Airy Talbot effect using acousto-optic phase
OLEMP-556656: Mofida BENZEKKA: Influence de la force de polarisation de Gurevich sur les structures à double-couches dans un plasma poussièreux
OLEMP-556727: Bessma BELAIFA: Influence de la force de polarisation non maxwellienne (force de polarisation Gurevich) sur les solitons (DA) de large amplitude dans un plasma poussièreux non magnétisé sans collision
OLEMP-560507: Aouda BOUNIF: Mathematical Modeling of Sustainable Energy Sources using Fractional Derivative
OLEMP-551015: AYADI SOUAD: Plasma Spectroscopy Analysis Through the Computation of Fractional Abel Equation
OLEMP-555118: Hind BENMAKRELOUF: Relativistic filamentation instabilities in plasmas
OLEMP-556472: Fatima GARADI: Second harmonic generation and electronic properties of NaNbO ₃ : theoretical investigation
OLEMP-556530: Abd Elmoumene SALHI: Stimulated Brillouin scattering induced instabilities in optical passive fiber
OLEMP-558940: Saoussen CHABOU: Streamlined representation of radial Laguerre Gaussian Beams
OLEMP-556535: Fouzia BOUCHELACHEM: The Second Virial Coefficient Of Ar ₂
OLEMP-556528: Omar BOUZIT: Unraveling the Impact of Minute Fluctuations on Nonlinear Structures in Nonequilibrium Plasmas
Atomic and Nuclear Physics /Quantum Computing & Machine Learning

<i>Chairs: Pr. BENRACHI, Pr. AMRANI, Dr. BENZAID, Dr. BOUKABCHA</i>
ANP-528662: Nasreddine ZAGHOU: Bound states solutions of the Dirac equation with position-dependent mass under the influence of the Eckart potential by using SUSYQM approach
ANP-555987: Zeyneb TAIBI: Breathers types for the higher order nonlinear schrödinger equation
ANP-556479: Hanane BENMAHDJOUR: Effect of correlation length on cold atoms in 3D disordered potentials
ANP-555845: Massinissa HADJALI: Elastic Scattering of Electron by Uracil at Intermediate Energies
ANP-556448: Kahina AMARI: Empirical computation of K _α X-ray fluorescence cross-sections for elements from 22Ti to 32Ge across photon energy of 59.5 keV.
ANP-556444: Mohamed DOUICI: Energies spectra of the relativistic Dirac equation in pseudospin symmetry limit using Feynman path integral method.
ANP-554722: Mohamed DOUICI: Study of proton radioactivity under the combined effect of generalized Woods-Saxon and Coulomb-like potentials.
ANP-556563: Hayet SAHI: Energy density of the mixed hadronic-QGP system with various contributions to the quarks and gluons density of states used in the projection method
ANP-556514: Youssef RAHMA: GEANT4 simulation of the AFRODITE installation
ANP-556433: Abdelkader CHEDDAD: Impact of the curvature term in the density of states on some features of the thermal deconfinement phase transition at zero chemical potential
ANP-556730: Rokaya DJIDA: Influence of the number of quark flavors on the four first cumulants of the probability distribution, for the QCD thermal Deconfining Phase Transition
ANP-556351: Karima ZICHE : Modeling and simulation of the light water nuclear small modular reactor CAREM-25 with OpenMC code.
ANP-555951: IMENE KHIAT: Multiply differential cross section for the total (e, 3e) K-shell vacancy creation of lithium and Beryllium by electron impact
ANP-556741: Nabila TAIBOUNI: Nuclear techniques for assessing radioactivity in construction materials
ANP-556556: Meriem OUHACHI: Numerical study of nuclear ground state properties of odd nuclei.
ANP-556715: Faiza RAMDANI: Parametrisation of the pressure of a system undergoing a thermal deconfinement phase transition in a finite volume with two models
ANP-556381: Anfel OUNIS: Preliminary neutronic analysis of a nuclear Micro-reactor with OpenMC
ANP-556393: Kenza BOUTAMI: Properties of deformed Be isotopes
ANP-560773: Abderrahmane BELAMINE: Radiation damage in Silicon Pad Detectors and Laser characterization
ANP-556445: Amina ZIDI: Semi-empirical measurement of (L _γ /L _β) X-ray intensity ratios for elements in the region 75 ≤ Z ≤ 92
ANP-556562: FATIHA KADEM: systematics studies of (n, d) reaction cross sections at 14 -15 MeV neutrons energy
ANP-556075: Merzoug FARDOUSE: The finite-mass effect on the quark-gluon plasma bubble nucleation.
ANP-555771: Mohamed amine LAKEHAL: Thermodynamic Investigation of the Crossover Region in the QCD Phase Diagram
ANP-556558: KELTOUM REDAOUIA: Two-dimensional dipolar Bose gas with Coulomb interactions in weak disorder potential.
ANP-556806: Othmane CHERROUD: Wigner's distribution functions with position-dependent effective mass for two cases of the Hermite HI and HII
QCML-551307: AYADI SOUAD: A Fractional Calculus Approach to Study Nonlocal Effects in Quantum Mechanics

❦ **Poster Session 02** ❦
14:15-15:45 (2nd Floor)

<p>Computation and Characterization of Materials Chairs: Dr. ELBAA, Dr. HAIRECHE, Dr. OUIR, Dr. HACHOUN, Dr. BOUCHENAF, Dr. LACHENANI, Dr. OULDARAB.</p>
<p>CCM-556434: Abdelbasset ABDELLI: A DFT investigation of structural, electronic and optical properties of Y-based equiatomic quaternary Heusler alloys YVMoZ (Z = Si, Ge, Sn) for optoelectronic applications.</p>
<p>CCM-529123: Sabria TERKHI: A DFT-mBJ+U study of electronic, magnetic, and thermoelectric properties of new half Heusler XYZ: A High Efficiency performance thermoelectric material</p>
<p>CCM-556183: Mohamed esseddik MILOUDI: Ab initio investigating of Sc-based quaternary Heusler alloy semiconductors with a promising absorption coefficient for solar cell application</p>
<p>CCM-555342: Rachida TEMZINI: Ab-initio study of structural, electronic, and magnetic properties of CoFeMnAl</p>
<p>CCM-560785: Noureddine BOUDECHICHE: Characterization and application of activated carbon prepared from biomaterial by H3PO4 activation for textile dye removal</p>
<p>CCM-559209: Lasnoui TOUAFRI: Computational quantum study on the corrosion inhibition potential of some amino-acids for metals and alloys.</p>
<p>CCM-543246: Hizia MERKOUNE: Deposition of zinc at different concentrations on mild steel by electrochemical method</p>
<p>CCM-556739: Houda DOUBA: Nonlinear Isotherm and Kinetic Study of Liquid Phase Removal of Toxic Anionic Dye</p>
<p>CCM-538099: Houria REZALA: Preparation and characterization of modified intercalated clays</p>
<p>CCM-556548: FATIHA BOUDJEMA: Rheological Behavior of Moisturizing Prepared Lip Balm</p>
<p>CCM-552030: Billel ZAHRA: Characterization of alpha-induced light yield in YAG: Ce³⁺ nanoscintillator detector for radiation detection applications</p>
<p>CCM-556230: Mohammed amin BENAOUA: Characterization, TD-DFT calculation and molecular modeling of new 4-Thiazolidinone Derivatives supercell</p>
<p>CCM-556452: Tinhinane REBAI: Comparative Study of Two Rinsing Methods for ZnS Powders Synthesized Using the Co-Precipitation Method</p>
<p>CCM-555841: Khaled DRIM: Crystal structure, Hirshfeld surface, Theoretical and Experimental Calculations of a New Benzimidazole Derivative</p>
<p>CCM-556537: Djamilia AOUAMER: Design of a pH-sensitive cross-link nanoparticles based on a modified Hyaluronic Acid polymer</p>
<p>CCM-556306: Hicham MAHDJOUR-ARAIBI: DFT and TD-DFT Investigation of Nonlinear Optical Responses of Organometallic Materials</p>
<p>CCM-555230: Yamina BENCHAA: DFT study of structural, electronic and optical properties for AgMO₂ (M = K, Rb, Cs)</p>
<p>CCM-555666: Hadj MEZOUAR: DFT/TD-DFT investigation on the UV-vis absorption and phosphorescence spectra of platinum(II) complexes with Schiff-base ligands</p>
<p>CCM-556515: Mahdjouba KHATIRI: Electron-phonon coupling in palladium based Heusler compound</p>
<p>CCM-555934: Sidi Mohamed BENHAMOU: Enhanced Modeling of Effective Conductivity in CNT Composites with Focus on Interphase Properties</p>
<p>CCM-556178: Abdelali BOUKAOU: Experimental and theoretical studies of electronic and vibrational properties of methyl orange</p>

<p>CCM-556817: Ichrak MOUSSAOUI: Experimental study of undoped and Antimoine-doped Zinc Oxide prepared by the PECVD method: Ab initio insights into electronic structure</p>
<p>CCM-556303: Asmaa KERMEZLI: Theoretical study of structural, elastic, electronic properties of cubic perovskite AgCaBr₃ compound</p>
<p>CCM-556440: Sofiane HAIRECHE: Experimental study of undoped and iron-doped Zinc Oxide prepared by the PECVD method: Ab initio insights into electronic structure.</p>
<p>CCM-556823: Chahinez BENAOUA: Experimental study of undoped Zinc Oxide prepared by the PECVD method: Ab initio insights into electronic, optic, elastic structure</p>
<p>CCM-556492: Assia BOUROUINA: Exploring the impact of an additional electron acceptor in D-A'-π-A photosensitizers on the optoelectronic, photovoltaic, NLO performance : A DFT/TDDFT study</p>
<p>CCM-556185: Ishak MEBARKIA: Exploring the Optoelectronic Properties of NaAuF₄: Insights and Applications</p>
<p>CCM-552541: Asma Douma BOUTHIBA: Exploring the Structural and Optical Characteristics of RbRaI₃ Halide Perovskite Through Ab Initio Calculations</p>
<p>CCM-560791: Djalel MEBARKI: First principle investigate the structural, electronic, elastic and thermodynamic properties of the intermetallics alloys LaC₂</p>
<p>CCM-556170: Salima BOUTICHE: First- principles Investigation of Multiferroism in Bulk BiCoO₃</p>
<p>CCM-556531: Abdelkrim BENARROUDJ: First-Principles Calculations of the Structural, Electronic, Optical Properties of ternary sulfides pnictogens InPnS₃ (Pn=Bi, Sb) Compounds</p>
<p>CCM-556467: Noureddine MECHEHOUD: First-principles Investigation of chloro-Elpasolite Cs₂NaVCl₆: Optical Properties using GGA+U Approach</p>
<p>CCM-555531: Fatma zohra rabab HAMDI: First-principles study of fluorine and chlorine doped SnO₂</p>
<p>CCM-556539: Abdelkarim MESSAOUDI: Full-Heusler alloy: Promising candidate for eco-friendly thermoelectric devices</p>
<p>CCM-556352: Hanane LACHENANI: Influence of porosity on the optoelectronic properties of porous silicon</p>
<p>CCM-546400: Ahlame MRAOUFEL: Structure and photoluminescent properties of green-emitting terbium-doped Y(V_{0.5}P_{0.5})O₄ phosphor prepared via sol-gel method</p>
<p>CCM-555394: Amira BAHLOULI: Investigation first principes calculation of structural, electronic and magnetic properties of Half-Heusler Compound RhMoSn</p>
<p>CCM-556437: Kheira BAHNES: Magnetic, electronic and thermoelectric properties of the quaternary Heusler alloy FeMnCrAs.</p>
<p>CCM-559516: Mahsar NADIA: Mössbauer Spectroscopy for Nanomaterials Characterization</p>
<p>CCM-556569: Oualid CHINOUNE: Quantum chemical calculation to predict hydrogen bonding system</p>
<p>CCM-556740: Karima BOUDHAR: Raman spectroscopy and computational study of 4-carbonitrile-3-(4-nitrophenyl) -2-phenyl isoxazolidine</p>
<p>CCM-537012: Samia DJABBOUR: Spectral investigation, TD-DFT study and 1H and 13C NMR spectra, of a new organic compound</p>
<p>CCM-555209: Mohamed lamine FODEILL: Structural and elastic properties of alkaline silver oxides AgMO₂ (M = K, Rb, Cs): DFT calculation</p>
<p>CCM-556318: Rahma CHEKOR: Structural and optical properties of cupric oxide (CuO) nanoparticles synthesized from olive leaf extract via an ultrasound-assisted sol-gel method.</p>
<p>CCM-556568: Mohamed KADI: Structural, electronic and optical properties of ZnAl₂O₄ compound</p>

<p>CCM-556536: Lazhari-ayoub NAAS: Structural, Morphological, and Optical Properties of Sol-Gel coated TiO₂ Film on Glancing Angle Sputter Deposited TiN Layer for Photocatalytic Applications.</p>	<p>CCM-555841: Khaled DRIM: Crystal structure, Hirshfeld surface, Theoretical and Experimental Calculations of a New Benzimidazole Derivative</p>
<p>CCM-556387: Widjdane Faten Rokaya RABIAI: Study of detection of earth-skimming ultra-high energy tau-neutrinos with fluorescence detectors</p>	<p>CCM-556537: Djamilla AOUAMER: Design of a pH-sensitive cross-link nanoparticles based on a modified Hyaluronic Acid polymer</p>
<p>CCM- 556552: Mohamed ELBAA: Study of the Inhomogeneity of HTS pellets in terms of J_c</p>	<p>CCM-556306: Hicham MAHDJOUR-ARAIBI: DFT and TD-DFT Investigation of Nonlinear Optical Responses of Organometallic Materials</p>
<p>CCM- 556436: Faiza HADJI: Study of the Photomultiplier Tube and the Silicon Photomultiplier.</p>	<p>CCM-555230: Yamina BENCHAA: DFT study of structural, electronic and optical properties for AgMO₂ (M = K, Rb, Cs)</p>
<p>CCM-560681: Djamel SEBBAR: the position dependent effective mass effect on single parabolic quantum wells</p>	<p>CCM-555666: Hadj MEZOUAR: DFT/TD-DFT investigation on the UV-vis absorption and phosphorescence spectra of platinum(II) complexes with Schiff-base ligands</p>
<p>CCM-556459: Mohammed hamdi CHERIF: The structural, electronic, magnetic, optical, and elastic characteristics of the double perovskite complex Pb₂MnWO₆</p>	<p>CCM-556515: Mahdjouba KHATIRI: Electron-phonon coupling in palladium based Heusler compound</p>
<p>CCM-563680: Anfal BEGAGRA: Theoretical study of BaZrS₃ cubic system based on ab initio method</p>	<p>CCM-555934: Sidi Mohamed BENHAMOU: Enhanced Modeling of Effective Conductivity in CNT Composites with Focus on Interphase Properties</p>
<p>CCM-556532: Abdelhak KHATAR: Turning waste heat into clean energy: Promising new thermoelectric material</p>	<p>CCM-556178: Abdelali BOUKAOU: Experimental and theoretical studies of electronic and vibrational properties of methyl orange</p>
<p>CCM-537322: Kheira HAMMOU: Vibrational spectroscopic analysis of 2,6-bis(4-fluorophenyl)-3,3-dimethylpiperidin-4-one (BFDP), DFT and molecular Docking study.</p>	<p>CCM-556817: Ichrak MOUSSAOUI: Experimental study of undoped and Antimoine-doped Zinc Oxide prepared by the PECVD method : Ab initio insights into electronic structure</p>
<p>CCM- 556557: Fatma MELLAL: Wave propagation behavior of P-FG and E-FG plates resting on elastic foundations</p>	<p>CCM-556303: Asmaa KERMEZLI: Theoretical study of structural, elastic, electronic properties of cubic perovskite AgCa Br₃ compound</p>
<p>CCM-555932: Nouredine BENHARKAT: X-ray Diffraction Determination of Molecular Structure with Theoretical Approaches for Non-Covalent Interactions and Natural Bond Orbital Analysis of a Single Crystal Thiourea Derivative Molecule</p>	<p>CCM-556440: Sofiane HAIRECHE: Experimental study of undoped and iron-doped Zinc Oxide prepared by the PECVD method: Ab initio insights into electronic structure.</p>
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<p>CCM-529123: Sabria TERKHI: A DFT-mBJ+U study of electronic, magnetic, and thermoelectric properties of new half Heusler XYZ: A High Efficiency performance thermoelectric material</p>	<p>CCM-556492: Assia BOUROUINA: Exploring the impact of an additional electron acceptor in D-A'-π-A photosensitizers on the optoelectronic, photovoltaic, NLO performance : A DFT/TDDFT study</p>
<p>CCM-556183: Mohamed esseddik MILOUDI: Ab initio investigating of Sc-based quaternary Heusler alloy semiconductors with a promising absorption coefficient for solar cell application</p>	<p>CCM-556185: Ishak MEBARKIA: Exploring the Optoelectronic Properties of NaAuF₄: Insights and Applications</p>
<p>CCM-555342: Rachida TEMZINI: Ab-initio study of structural, electronic, and magnetic properties of CoFeMnAl</p>	<p>CCM-552541: Asma Douma BOUTHIBA: Exploring the Structural and Optical Characteristics of RbRaI₃ Halide Perovskite Through Ab Initio Calculations</p>
<p>CCM-560785: Nouredine BOUDECHICHE: characterization and application of activated carbon prepared from biomaterial by H₃PO₄ activation for textile dye removal</p>	<p>CCM-560791: Djalel MEBARKI: First principle investigate the structural, electronic, elastic and thermodynamic properties of the intermetallics alloys LaC₂</p>
<p>CCM-559209: Lasnoui TOUAFRI: Computational quantum study on the corrosion inhibition potential of some amino-acids for metals and alloys.</p>	<p>CCM-556170: Salima BOUTICHE: First- principles Investigation of Multiferroism in Bulk BiCoO₃</p>
<p>CCM-543246: Hizia MERKOUNE: Deposition of zinc at different concentrations on mild steel by electrochemical method</p>	<p>CCM-556531: Abdelkrim BENARROUDJ: First-Principles Calculations of the Structural, Electronic, Optical Properties of ternary sulfides pnictogens InPnS₃ (Pn=Bi, Sb) Compounds</p>
<p>CCM-556739: Houda DOUBA: Nonlinear Isotherm and Kinetic Study of Liquid Phase Removal of Toxic Anionic Dye</p>	<p>CCM-556467: Nouredine MECHEHOUD: First-principles Investigation of chloro-Elpasolite Cs₂NaVCl₆: Optical Properties using GGA+U Approach</p>
<p>CCM-538099: Houria REZALA: Preparation and characterization of modified intercalated clays</p>	<p>CCM-555531: Fatma zohra rabab HAMD: First-principles study of fluorine and chlorine doped SnO₂</p>
<p>CCM-556548: FATIHA BOUDJEMA: Rheological Behavior of Moisturizing Prepared Lip Balm</p>	<p>CCM-556539: Abdelkarim MESSAOUDI: Full-Heusler alloy: Promising candidate for eco-friendly thermoelectric devices</p>
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