



ISPDS-2 2nd International Symposium on Physics of Data Storage

October 31, November 01-02, 2017, Meknes Morocco

**Laboratory of Advanced Materials Studies and Applications (LEM2A)
and
Advanced Physics Society of Nanomaterials for Energy and Technology (SPANET)**

Final program

The Symposium is supported by:

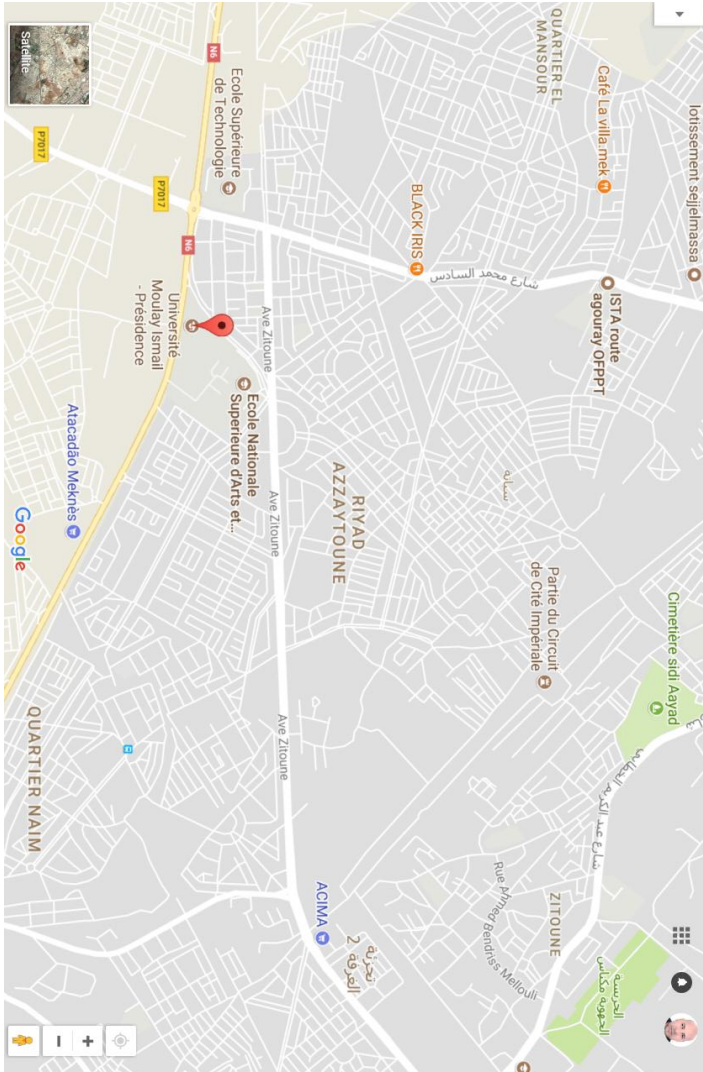


Maghreb

Conference Location:

**Moulay Ismail University
Presidency, Marjane 2, BP:298,
Meknes-Morocco.**

Access map





Welcome

Dear Colleagues,

After the success of the First International Symposium on Physics of Data Storage (ISPDS1) in Amiens, France, December 2015, we are pleased to organize the second International Symposium on Physics of Data Storage (ISPDS2, website: <https://ispds2.sciencesconf.org/>), on 31th October & 01-02th November 2017, in Moulay Ismail University of Meknes old Imperial city in Morocco.

Following the recommendations of ISPDS1, ISPDS2 is the continuation of a series of conferences that will be rotated between Universities voluntary researchers in the world. ISPDS-2 host also the conferences with particularly original content dedicated to PhD students and scientist.

This second edition ISPDS2 over three days will permit:

1. to round up specialists in the advanced materials research field (theoretical and experimental),
2. to discover the scientific community and research in the Moulay Ismail University,
3. to review to the younger generation today, through various scientific presentations, the evolution of storage memories and their implementation in physics and electronic devices, and the revolution in nanomaterials and nanotechnology and their applications in renewable energy.

We want to thank the members of the Scientific Committee and all the invited speakers.

We recall that the financial support of the symposium was provided largely by:

1. The Moulay Ismail University
2. The Laboratory of Advanced Materials Studies and Applications (LEM2A)

We hope that everyone will found in this meeting an important topical interest, a great pleasure on exchanging with the inter-Mediterranean scientific community.

On behalf the organizing committee of ISPDS-2

Prof. Abdelhai Rahmani, Chairman.



2nd International Symposium on Physics of Data Storage**Honorary Committee**

Mohamed HASSAD, Minister of National Education, Professional Training, Higher Education and Scientific Research Morocco.

Omar FASSI-FEHRI, Permanent Secretary of the Hassan II Academy of Science and Technology Morocco.

Hassan SAHBI, President of Moulay Ismail University Meknes Morocco.

Ahmed HAMMOUCH, Acting Director of the National Centre for Scientific and Technical Research.




Hamid ELMIR, Dean of Faculty of Sciences Meknes.

Mohammed BENNASER, Director of Superior School of Technology Meknes.

Lahcen CHILASSE, Director of Superior School of Technology Khénifra.

Youssef EL AMRAOUI, Director of National School of Arts and Metier Meknes.

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	Mabrouk BENHAMOU Faculty of Sciences, Moulay Ismail University Meknes Morocco
	Abdelhai RAHMANI Faculty of Sciences, Moulay Ismail University Meknes Morocco

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Mohamed EL BARGHOUTI	Faculty of Sciences, Meknes, Morocco.
Maryam DLIMI	Faculty of Sciences, Meknes, Morocco.
Amine Lachheb	Faculty of Sciences, Meknes, Morocco.
Oussama BOUTAHIR	Faculty of Sciences, Meknes, Morocco.

2nd International Symposium on Physics of Data Storage Scientific Committee

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Jean-Louis BANTIGNIES	University of Montpellier, Montpellier, France.
Jean-Louis SAUVAJOL	University of Montpellier, Montpellier, France.
Laurent ALVAREZ	University of Montpellier, Montpellier, France.
Lahcen Bih	Faculty of Sciences, Meknes, Morocco.
Lahcen Khouchaf	Institut Mines Telecom, Lille, France.
Mabrouk BENHAMOU	Faculty of Sciences, Meknes, Morocco.
Miloud RAHMOUNE	Superior School of Technology, Meknes, Morocco.
Mimoun EL MARSSI	University of Picardy, Amiens, France.
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Youssef TAHRI	Faculty of Sciences, Meknes, Morocco.
Yaovi GAGOU	University of Picardy, Amiens, France.

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Yaovi GAGOU	UPJV Amiens, France
Cantaluppi Anna	UPJV Amiens, France

2nd International Symposium on Physics of Data Storage

List of keynote speakers

Tuesday October 31 10:00-10:45		Confinement of organic dyes inside carbon nanotubes Jean-Louis BANTIGNIES Charle Coulomb Laboratory, University of Montpellier, France
Tuesday October 31 10:45-11:30		Magneto caloric Materials for Magnetic Refrigeration Abdelilah BENYOUSSEF Resident member of the Hassan II Academy of Sciences and Techniques.
Tuesday October 31 14:30-15:15		Copper hexacyanoferrate (CuHCF) functionalized SWCNTs for the solid-liquid selective extraction of cesium Laurent ALVAREZ Laboratoire Charle Coulomb, Université de Montpellier, France
Tuesday October 31 16:45-17:30		Piezoelectric actuators for fine dynamic tuning of Superconducting RF cavities fundamental mode frequency Mohammed FOUAIDY IPNO - Institut de Physique Nucléaire, Orsay France
Wednesday November 01 08:30-09:15		Nanofabrication of advanced materials using self-organized templates Célia TAVARES DE SOUSA IFIMUP Laboratory Porto University Portugal
Wednesday November 01 10:30-11:15		SiGe nanocrystals embedded in SiO ₂ for charge storage applications Adil CHAHBOUN FST, Abdelmalek Essaadi University, Tanger, Morocco.
Wednesday November 01 14:30-15:15		On the problem of polarization and charges within domain walls in dielectrics Pierre SAINT-GRÉGOIRE MIPA Laboratory, University of Nîmes, France
Wednesday November 01 16:45-17:30		History of Data Storage and New Systems Yaovi GAGOU LPMC, University of Picardie Jules Verne, Amiens France
Thursday November 02 08:00-08:45		Environmental Electron Microscopy and nanomaterials : case of SiO ₂ compounds Lahcen KHOUCHAF Institut Mines Telecom, Université de Lille Douai, France
Thursday November 02 08:45-9:30		Lecture on the anomalous diffusion in Condensed Matter Physics Mabrouk BENHAMOU Faculty of Sciences, Moulay Ismail University, Meknes Morocco.
Thursday November 02 09:30-10:15		The spectral moment's method: improvements and applications Abdelali RAHMANI Faculty of Sciences, Moulay Ismail University, Meknes Morocco.

2nd International Symposium on Physics of Data Storage Program

Monday, October 30, 2017	
16:00-19:00	Reception of participants and registration
Tuesday, October 31, 2017	
08:00-09:00	Registration
09:00-09:30	Opening ceremony
09:30-10:00	Reception in honor of participants
10:00-11:30	Invited Talk
11:30-13:00	Oral session
13:00-14:30	Lunch
14:30-15:15	Invited Talk
15:15-16:15	Oral session
16:15-16:45	Coffee Break and Poster session A
16:45-17:30	Invited Talk
17:30-19:00	Oral session
Wednesday, November 01, 2017	
08:00-08:45	Invited Talk
08:45-10:15	Oral session
10:15-10:45	Coffee Break and Poster session B
10:45-11:30	Invited Talk
11:30-13:00	Oral session
13:00-14:30	Lunch
14:30-15:15	Invited Talk
15:15-16:15	Oral session
16:15-16:45	Coffee Break and Poster session C
16:45-17:30	Invited Talk
17:30-19:00	Oral session
20:00-22:30	Gala Dinner
Thursday, November 02, 2017	
08:00-10:15	Invited Talk
10:15-10:30	Coffee Break
10:30-11:45	Parallel Oral sessions 1-2
11:45-12:00	Closing

2nd International Symposium on Physics of Data Storage Program

Monday, October 30, 2017	
16:00-19:00	Reception of participants and registration Conference Location: Moulay Ismail University, Presidency, Marjane 2, BP:298, Meknes-Morocco.
Tuesday, October 31, 2017	
08:00-09:00	Registration
09:00-09:30	Opening ceremony
Minister of National Education, Professional Training, Higher Education and Scientific Research: M. Mohamed HASSAD Permanent Secretary of the Hassan II Academy of Science and Technology: M. Omar FASSI-FEHRI President of Moulay Ismail University Meknes (UMI): M. Hassan SAHBI Dean of Faculty of Sciences Meknes (FSM): M. Hamid ELMIR Chairman of previous edition of ISPDS: Prof. GAGOU Yaovi Chairman of organizing committee of ISPDS-2: Prof. Abdelhai RAHMANI	
09:30-10:00	Reception in honor of participants
10:00-10:45	Chair: Prof. GAGOU Yaovi Invited speaker 1: Prof. Jean-Louis bantignies Charle Coulomb Laboratory, University of Montpellier, France "Confinement of organic dyes inside carbon nanotubes"
10:45-11:30	Invited speaker 2: Abdelilah BENYOUSSEF Resident member of the Hassan II Academy of Sciences and Techniques "Magneto caloric Materials for Magnetic Refrigeration"
Oral session (Chair Prof. GAGOU Yaovi)	
11:30-11:45	Najoia ARIBOU: Prediction of filler-matrix interphase effects on AC and DC electrical conductivities behavior of carbon black-filled polymer nanocomposites. (ID-157488)
11:45-12:00	Iatimad AKHRIF: An intercalation experience of Polyethylene Glycol 6000 into nanoclay sheet of a marl row material (ID-158542)
12:00-12:15	Soukaina EL-MOUDNY: Extensive study of cage effect and subdiffusion in Pickering emulsions using Molecular Dynamics simulations (ID-158707)
12:15-12:30	Nadia EL ATLAS: Numerical study of the crosstalk effects in ultrasonic transducer arrays utilized in medical imaging (ID-157457)
12:30-12:45	Charef TABTI: Molecular structure, vibrational assignments and Non Linear Optical properties of 4, 4'dimethylaminocyanobiphenyl (DMACB) by X-ray method, DFT and ab initio HF calculations. (ID-158521)
12:45-13:00	Malika ZAIM: The magnetocaloric effect of the binary alloy ferromagnetic nanoparticle (ID-157544)
13:00-14:30	Lunch

**2nd International Symposium on Physics of Data Storage
Program**

Tuesday, October 31, 2017	
14:30-15:15	Chair: Prof. Jean-Louis bantignies Invited speaker 3: Prof. Laurent Alvarez Charle Coulomb Laboratory, University of Montpellier, France "Copper hexacyanoferrate (CuHCF) functionalized SWCNTs for the solid-liquid selective extraction of cesium"
Oral session (Chair Prof. Mouhcine Bentaleb)	
15:15-15:30	Mourad BOUTAHR : Identification of mono-and few-layer graphene films: X-Ray and Raman studies. (ID-154601)
15:30-15:45	Mohamed HOUMAD : Improvement the electrical conductivity of siligraphene SiC ₇ by strain (ID-161774)
15:45-16:00	S. A. AIT ABDELKADER : Vibrational Properties of Carbon Peapods (C ₆₀ @SWCNT) with Mono, Di and Hexa-vacancies defects (ID-162283).
16:00-16:15	Souda DERKAOUI : Weighting of the attractive interaction between microemulsion droplets decorated with hydrophobically modified polymers by the repulsive Coulomb interaction (ID-157495)
16:15-16:45	Coffee Break and Poster session A
16:45-17:30	Chair: Prof. Laurent Alvarez Invited speaker 4: Prof. Mohammed FOUAIDY Institute of Nuclear Physics, Orsay France "Piezoelectric actuators for fine dynamic tuning of Superconducting RF cavities fundamental mode frequency"
Oral session (Chair Prof. Mohamed FOUAIDY)	
17:30-17:45	Badis BENNECER : Magneto-optical Kerr effect in CdTMO ₂ (TM= Cr and Mn) (ID-158609)
17:45-18:00	Ahmed CHAFAI : ZnTe/CdSe Type-II Core/Shell spherical quantum dot under an external electric field (ID-160973)
18:00-18:15	El yakout EL KORAYCHY : The diffusion behavior of homo and heterodimers on channeled gold surface (ID-156254)
18:15-18:30	R. AHFIR : Interactions between bare Microemulsion droplets : A small-angle neutron scattering study (ID-157522)
18:30-18:45	M. LEMAALEM : Molecular dynamics simulations of Protein inclusion in flexible DPPC membrane (ID-162115)
18:45-19:00	Abdellah FERAOUN : Study of a ferromagnetic ising system in a graphene layer: a quantum monte carlo treatments (ID-157423)

2nd International Symposium on Physics of Data Storage Program

Wednesday, November 01, 2017	
08:00-08:45	Chair: Prof. Youssef EL AMRAOUI Invited speaker 1: Prof. Célia Tavares de Sousa IFIMUP Laboratory, Porto University Portugal. "Nanofabrication of advanced materials using self-organized templates"
Oral session (Chair Prof. GAGOU Yaovi)	
08:45-09:00	Rachid ABDIA: Low temperature resistivity in N-type CdAs ₂ semiconductors (ID-162349)
09:00-09:15	Abdelhadi EL BACHIRI: A systematic investigation on conduction process in ferroelectric ceramic of Lithium-niobate materials (ID-157616)
09:15-09:30	Hicham ES-SOUFI: Effect of TiO ₂ on electrical, structural and crystallization behavior of alkali tungsten phosphate glasses (ID-161257)
09:30-09:45	Ahmed BOUFELFEL: Temperature and hydrogen effects on L ₁₀ -FePd magnetic storage material (ID-162281)
09:45-10:00	S. YOUSFI: Photovoltaic effect and conduction mechanism in BiFeO ₃ thin films (ID-162280)
10:00-10:15	Zouhair HANANI: Effects of grain size engineering on microstructure and dielectric properties of doped-BaTiO ₃ lead-free ferroelectric ceramics (ID-157550)
10:15-10:45	Coffee Break and Poster session B
10:45-11:30	Chair: Prof. Célia Tavares de Sousa Invited speaker 2: Prof. Adil CHAHBOUN FST, AbdelmalekEssaadi University, Tanger, Morocco. "SiGe nanocrystals embedded in SiO ₂ for charge storage applications"
Oral session (Chair Prof. Célia Tavares de Sousa)	
11:30-11:45	Abdelkhalek KAMMOUNI: Linear growth of LBL films with poly (allylamine)-salsal (ID-157635)
11:45-12:00	Noura ZAIM: The blocking temperature of a cylindrical nanowire system (ID-157549)
12:00-12:15	Hassan AHMOUM: Electronic and magnetic properties of (w-AlN) co-doped Mn-(C,Si) with presence of N vacancy (ID-162069)
12:15-12:30	Abderrahim BOUTAHAR: Magnetic properties and magnetocaloric effect in CoEr ₂ intermetallic compound (ID-157677)
12:30-12:45	Bouchra MOKHTARI: Simulation and analysis of light absorption in a new four-layer graphene/metamaterial structure for solar cells (ID-161831)
12:45-13:00	Souad GHYATI: Polymer nanocomposites from natural clay: Understanding Clay-PEG interactions and their effect on spacing between clay-plates (ID-158714)
13:00-14:30	Lunch

2nd International Symposium on Physics of Data Storage Program

Wednesday, November 01, 2017	
14:30-15:15	Chair: Prof. Prof. Adil CHAHBOUN <u>Invited speaker 3: Prof. Pierre Saint-Grégoire</u> MIPA Laboratory, University of Nîmes, France "On the problem of polarization and charges within domain walls in dielectrics"
Oral session (Chair Prof. Adil Chahboun)	
15:15-16:15	Soufiya MIZANI: The increased efficiency of heat transfer using supercritical fluids flow over bluff body (ID-162099)
15:15-16:15	Mohamed EL BARGHOUTI: Effect of MoS ₂ layer on the LSPR in nanostructures periodicals of silver nanoparticles applications for the sensitive detection of sensors (ID-157520)
15:15-16:15	Mohammed LAMRHARI: Frequency analysis of nonlinear structures with uncertainties parameters (ID-162277)
15:15-16:15	Abdelaziz Essadike: 3D Tracking of brain tumor by digital holography (ID-161033)
Coffee Break and Poster session C	
16:45-17:30	Chair: Prof. Pierre Saint-Grégoire <u>Invited speaker 4: GAGOU Yaovi</u> LPMC, University of Picardie Jules Verne, Amiens France "History of Data Storage and New Systems"
Oral session (Chair Prof. Lahcen Khochaf)	
17:30-17:45	Radouane EL KINANI: Investigation of DNA denaturation from generalized morse potential (ID-160122)
17:45-18:00	Nabil KHATIB: Ultrasound characterization of the sensitivity to accelerating admixtures type and dosage on setting and hardening of mortar (ID-157662)
18:00-18:15	Y. KHALED: Dirac-equation approach for graphene with an arbitrary potential: Exact analytical results (ID-161747)
18:15-18:30	Hajar ZAITOUNI: Mechanisms of relaxation and impedance spectroscopy of Ba _{0.9} Sr _{0.1} TiO ₃ ceramics (ID-157347)
18:30-18:45	Mostapha ELJAI: Thermal characterization of clay/PEG 6000 micro composites and nanocomposite using Differential Scanning Calorimeter (ID-158539)
18:45-19:00	Hassan EL OUADDI: The critical current density and the vortex pinning in the organic layered superconductor k-(BEDT-TTF) ₂ Cu[N(CN) ₂]Br (ID-160912)
20:00-22:30	Gala Dinner

2nd International Symposium on Physics of Data Storage Program

Thursday, November 02, 2017

08:00-08:45	Chair: Prof. Mohamed Kerouad Invited speaker 1: Prof. Lahcen Khouchaf Institut Mines Telecom, Douai Lille University, France "Environmental Electron Microscopy and nanomaterials: case of SiO ₂ compounds"
08:45-9:30	Invited speaker 2: Prof. Mabrouk BENHAMOU Faculty of Sciences, Moulay Ismail University, Meknes Morocco "Lecture on the anomalous diffusion in Condensed Matter Physics"
09:30-10:15	Invited speaker 3: Prof. Abdelali RAHMANI LEM2A, Faculty of Sciences, Moulay Ismail University, Meknes Morocco. "The spectral moment's method: improvements and applications"
10:15-10:30	Coffee Break
Parallel session 1 (Chair Prof. Mohamed Kerouad)	
10:30-10:45	Said BEN MOUMEN : Effect of synthesis method on the structural and magnetic properties of LA1–YCA1–X ₂ XMNO ₃ ceramics (ID-157379)
10:45-11:00	Aziz NEQALI : Dielectric and impedance spectroscopic studies of lead free Ba1-xCax(Zr0,1Ti0,9)O ₃ ferroelectric ceramics (ID-156786)
11:00-11:15	Samira AMHIL : Theoretical and experimental temperature and frequency dependence of the electrical conductivity in the dynamic regime: application to solar cell material p-CuIn ₃ Se ₅ (ID-157344)
11:15-11:30	Abdelhak EL GHANDOURI : Effect of strontium on the structural and electrical properties of the sol gel processed barium titanate (ID-157515)
11:30-11:45	Hamane LEMZIOUKA : Synthesis, structural and dielectric properties of Pb _{0.9} (La _{1-x} Cox) _{0.1} Zr _{0.75} Ti _{0.25} O ₃ (ID-157518)
Parallel session 2 (Chair Prof. Abdelmajid AINANE)	
10:30-10:45	Mustapha TARNAOUI : The effect of a random transverse field on the critical and compensation behaviors of an antiferroelectric nanowire with core/shell morphology (ID-157556)
10:45-11:00	Benamar BOUHAFS : Design Analysis of Composite Materials–Absorbent Medium Interface Based Plasmonic Imaging System (ID-157504)
11:00-11:15	Mohamed AFQIR : Synthesis, structural and dielectric properties of SrBi ₂ – xSmxNb ₂ O ₉ (ID-157762)
11:15-11:30	Khalid ELHARTI : effect of sensor/actuator piezoelectric location on E-FGM beam dynamics (ID-160940)
11:30-11:45	Fatima ezzahrae ALLALI : Electronic and vibrational properties of nitrogen doped single walled carbon nanotubes (ID-157403)
11:45-12:00	Closing

**2nd International Symposium on Physics of Data Storage
Program**

Poster session A	
Panel	Title
01	A phenomenological model for prediction of magnetocaloric properties in MnFe _{0.95-x} CoxP _{0.5} Si _{0.5} nanocompounds (A. Boutahar, ID-157424)
02	The co-doping effect on the structural, magnetic and electrical properties of ceramic Pb(Fe _{0.03} Ti _{0.97})O ₃ synthesized by the sol-gel route. (L.H. Omari, ID-158095)
03	Magnetic refrigeration application to the developpement of future clean energy sources. (Ismail FAHIM, ID-161928)
04	Study of properties of lead selenide (pbse) thin films deposited on TiO ₂ (A. Merouani, ID-156182)
05	Ab-initiostudy of electronic, magnetic and structural properties of half-metallic double perovskite Sr ₂ CrZrO ₆ governed by Cr- 3d ferromagnetic coupling (S.HAID, ID-156441)
06	Alternative high-k material investigation of insulator layer effects on electrical characteristics of AU/n-GaAs by the simulation of current voltage (I-V) at room temperature. (S. Zellag, ID-162284)
07	The thermodynamic properties of the transverse antiferromagnetic Ising model : The Reentrant and Hysteresis behaviors. (Imad LAARAJ, ID-157391)
08	Nucleation and growth of cobalt (co) electrodeposition from alkaline electrolyte on glass carbon electrode (L. Abdelfettah, ID-157497)
09	Phase behavior of pH-smart system: microemulsion and polyelectrolyte (PAA) (Soumia Elkhaoui, ID-157501)
10	Fractal approach to AC impedances pectroscopy studies of carbon nanotubes /epoxypolymer composites (R. Belhimria, ID-157508)
11	Tetragonal tungsten bronze based glass-ceramics for high energy storage density (A.IHYADN, ID-157618)
12	Influence of Intrinsicdefects on the dielectricproperties in lithium niobate (Ali Elouali, ID-157869)
13	Elaboration and characterization of the composite material (Organic Conductive Polymer / Graphene) for supercapacitors (Abdelfetteh SAYAH, ID-159549)
14	Ferromagnetism induced by Cr-, V single and double impurities doped BN from Ab-initio and Monte Carlo study (Y. Benhouria, ID-161279)
15	Vibrational Properties of Single-Wall BN-Nanotubes inside Carbon Nanotubes using IR spectroscopy (H. Boughaleb, ID-161511)
16	The electric and critical behaviors of a ferrielectric superlattice. (A. Feraoum, ID-157422)
17	Prediction of wind speed and production management (Y. Ame, ID-157517)
18	Ab initio analysis of the conformations of Acetylcholine (A. Benosman, ID-157731)
19	Effects of Piezoelectric Layer on Rayleigh Waves Behavior in Piezomagntic Substrate (Morched Ben Amor, ID-157845)
20	Elaboration of barium titanate based phosphate glasses (E. HAILY, ID-158789)

**2nd International Symposium on Physics of Data Storage
Program**

Poster session B	
Panel	Title
01	Effect of cooling modes on spontaneous polarisation behaviour of non-stoichiometric solid solutions Cu: LiTaO ₃ (M.Tahiri, ID-157927)
02	Synthesis of phosphate glasses based on alkalineniobates (S. BENYOUNOUSSY, ID-158916)
03	Thermophysical characterization of a mortar composite cement, (A.lachheb, ID-159047)
04	Electronic and optical properties of sr-doped BATIO ₃ : first-principales study (O. Tahir, ID-159293)
05	Numerical estimation of vanadium dioxide optical properties for building insulation applications (Omar IKEN, ID-160011)
06	Pool boiling heat transfer of liquid nitrogen on a brass ribbon with different positions (K.BOUAZAOUI, ID-160048)
07	Experimental study on the influence of the thickness of an insulation material on the thermal resistance of a multilayer wall (Maryam DLIMI, ID-160642)
08	Pyroelectric and Dielectric Properties of Temperature-Graded Ferroelectric Structure (Y. Benlahbib, ID-161125)
09	Zr doping effects on microstructural, optical, electrical and Ethanol-sensing properties of Mn ₃ O ₄ husmannites prayed thin films (T. Larbi, ID-161467)
10	Effect of MoS ₂ layers deposite dunder the gold nanoparticles on the localized surface plasmon resonance (M. El Barghouti, ID-157523)
11	Structural, optical and electrical properties of Fe-doped CdS thin films prepared by spray pyrolysis method (A. Rmili, ID-158197)
12	Comparison of the real and simulated production of the three photovoltaic panels connected to the system (L. BOUHAKI, ID-161568)
13	Modeling the effect of alfa fibers on the thermal behavior of a clay-based material (O. BOUTAHIR, ID-161595)
14	Small conjugated molecules based on thiophene for optoelectronic applications: dft theoretical approach (Aziz EL ALAMY, ID-161707)
15	Theoretical investigations on molecular structure, vibrational spectra, homo, lumo analysis of new conjugated compounds for organic solar cells. (Aziz EL ALAMY, ID-161709)
16	Contribution to study of influence the temperature and intrinsic defect structure on the lattice parameters variation in LiTaO ₃ (Noureddine Masaif, ID-161782)
17	Evidence of a continuous trap distribution in the Alpha-Alumina D' Peaks (S.Bachaoui, ID-162038)
18	Monte Carlo investigation of dielectric properties in ferroelectric double-walled nanotubes under the effect of uniaxial stresses (Y. Benhouria, ID-162049)
19	Monte Carlo and Density Functional Theory investigation on the magnetic and electronic properties of hexagonal MnB ₂ (H. Ahmoum, ID-162065)
20	Magnetic and electronic properties of V and Mn co-doped GaN from Ab-initio calculations and Monte Carlo simulations study (I. Bouziani, ID-162073)

**2nd International Symposium on Physics of Data Storage
Program**

Poster session C	
Panel	Title
01	Effect of synthesis route on structural, morphological and magnetic properties of nife2o4 powders (E.M. Lemdek, ID-162247)
02	Transparent conducting properties of Al doped SnO2 thin films prepared by spray pyrolysis technique. (L. Soussi, ID-157775)
03	Raman-active modes in defective peapod (F. Fergani, ID-155304)
04	Investigations of structural, elastic, electronic, magnetic and transport properties of the inverse Full-Heusler compounds Zr2PdZ (Z=Al, Ga and In): FP-LAPW method. (L.H. Omari, ID-158090)
05	Electronic Properties of graphene and carbon nanotube zigzag by Green's Function Method. (H. Moujri, ID-157643)
06	Dielectric behaviour and frequency of relaxation of the ba1-xs rxtio3 ferroelectric ceramic in the frequency range of 1khz to 2mhz. (A. Elbassetta, ID-161688)
07	Heteroepitaxial thin films Nucleation of edge dislocations dipoles. (Aziz soufi, ID-156443)
08	Influence of gadolinium on the physical characteristics of titanium barium material (Lamia MRHARRAB ID-159329)
09	Dual acousto-plasmonique cavities for nano-opto-mechanical devices. (Oumekloul ZAKARIAE, ID-157479)
10	Theoretical study of Raman active modes in fullerenes C60 and C70 inside single-wall boron nitride nanotubes (Brahim FAKRACH, ID-160745)
11	Conception and 2D simulation of hydrogen absorption in a metal hydride storage reactor (Said LAASRI, ID-160447)
12	Raman active modes in single-walled BC3 nanotube bundles (A. Elbiyaali, ID-157286)
13	Vibrational Properties Of Boron Nitride Nanotubes With Mono, Di And Tri-Vacancies Defects (A. Ait Abdelkader, ID- 162285)
14	The photovoltaic effect in BiFeO3 thin films deposited in SrTiO3 (S. Yousfi, ID-162279)
15	Effect of Copper Doping on Structural, Dielectric and Electrical Properties of BaTiO3 (F. Krimech, ID-162278)
16	X-ray diffraction and Raman spectroscopy studies of composition induced phase transitions in Ba2-xSrxCdWO6 (A. Aamrani, ID-156488)
17	Effect of rf power and O2/Ar ratio on structural, optical and electrical properties of ZnO thin films grown by reactive radio frequency sputtering (Ahmad AFKIR, ID-162014)