

List of Participants

First name	Last name	Affiliation
Abdelaziz	Sid	University of Batna 1
Saida	Belhas	University of Batna 1
Oussama	Boultif	University of Batna 1
Mekki	Aouachria	University of Batna 1
Moussa	Smadi	University of Batna 1
Rahma	Belaabed	PRIMALAB ,Department of physics Batna1 University
Abir	Boubir	PRIMALAB ,Department of physics Batna1 University
Siham	Kalli	Physics Department - M'sila University
Rafik	Sedrati	Department of Material Sciences, Faculty of Science and Technology, Mohamed-Cherif Messaadia University of Souk Ahras .
Meriem	Trad	LPAT Laboratory, Larbi Tebessi -Tebessa University
Samia	Addala	department of physics university of bouira

List of Participants

First name	Last name	Affiliation
Ilhem	Aggoun	LEPCM Department of physics Batna1 University
Sehili	Ammar	Laboratoire Electrochimie et Matériaux LEM, Université of Setif1, Algeria
Rabie	Amraoui	Laboratoire de Physique des Matériaux, Université 8 mai 1945, Guelma, Algeria.
Hamza	Bareche	university of Msila
Roukia	Beldjedra	University of constantine 1
Ahmed	Benmoussa	University of Ouargla
Turki	Bilal Merouane	university of djilali liabes sidi bel abbes
Soumia	Boudraa	University of Batna1
Adil	Bouhadiche	Research Unit in Optics and Photonics (UROP), Center for Development of Advanced Technologies (CDTA)
Habiba	Bouheraoua	Laboratoire d'étude physico-chimique des matériaux - Departement de physique –University of Batna1-ALGERIE
Maria nor elyakin	Boumezrag	university of Biskra

List of Participants

First name	Last name	Affiliation
Rima	Cherroun	Laboratory of Semiconducting and Metallic Materials (LMSM).
Mohamed	Diaf	University of Batna 1 (LEPCM)
Wafa	Guenez	University of tebessa
Fatiha	Guerfa	PRIMALAB ,Department of physics Batna1 University
krarcha	Hadda	PRIMALAB ,Department of physics Batna1 University
Mouloud	Haroun	Laboratoire Procédés pour Matériaux, Energie, Eau et Environnement Bouira
Righi	Haroun	LEPCM, University of Batna 1
Souad	Kasrani	University of Batna 1
Aya	Latif	University of Biskra
Meryem	MALLA	Laboratory of Applied Mechanics and New Materials, University of 08 may 1945 Guelma, 24000, Algeria.
Nadia	Mekkas	Chimie des materiaux , Oum El Bouaghi

List of Participants

First name	Last name	Affiliation
Fatma	Menacer	University of Ouargla
Djehiche	Nour el houda	University of biskra
Youcef	Rached	University Ahmed Ben Yahia El-Wancharisi Tissemsilt
Sayah	Rezgui	Mohamed Khider University, Biskra
Soltani	Samira	Ferhat Abbas University, Setif1 Algeria, 19000, Algeria
KHELFI	Silia	Unité de recherche des matériaux émergents sétif-Algeria
Randa	Slatnia	University of Biskra
Oussama	Smaal	Laboratory of Exploitation and Valorization of Natural Resources in Arid Zones (EVRNZA) , Kasdi_Merbah_University, Ouargla, ALGERIA.
Louafi	Widad	Laboratoire de Physique Théorique, Faculté des sciences exactes, University of Bejaia,
Mansouri	Yakout	LEPCM, University of Batna 1

List of Participants

First name	Last name	Affiliation
Souheila	Zouai	University of Tebessa
Meriem	Abdelaziz	university of biskra
Mohamed	Achour	Laboratoire de Physique Théorique, Département de Physique, Faculté des Sciences Exactes, Université A. Mira, Bejaia, Algeria
Chafia	Bendjeroudib	Applied and Theoretical Physics Laboratory (LPAT), Larbi Tebessi University- Tebessa, Algeria
Hana	Benslama	University of Batna 1
Hamza	Bouaziz	LRPRIM, Batna1 University
Djemouai	Djamai	Khenchela University, laboratoire d'Ingénierie et Sciences des matériaux Avancés ISMA, Elhamma- Algeria
Mohamed El Arebi	GADJA	University of Ouargla
Safa	Gaid	PRIMALAB ,Department of physics Batna1 University
Sarra	Garah	Echahid Cheikh Larbi Tebessi University- Tebessa
Sarra	Garah	Echahid Cheikh Larbi Tebessi University- Tebessa

List of Participants

First name	Last name	Affiliation
Marouane Habib	Heraiz	university of M'sila
Lakehal	Mohamed Amine	Laboratoire de Physique des Particules et Physique Statistique, Ecole Normale Supérieure-Kouba
Bachir	Moussaoui	Laboratoire de Physique des Particules et Physique Statistique, Ecole Normale Supérieure-Kouba, B.P.92, 16050, Vieux-Kouba, Algiers, Algeria
Essma	Redouane Salah	University of M'sila
Hadjar	Rezki	Laboratoire de Physique des Rayonnements et de leurs Interactions avec la Matière, , University of Batna 1
Nader	Rouabhia	Laboratoire de Physique Appliquée et Théorique, Université Larbi- Tébessi-, Tébessa, Algérie
Lakhdar	Sek	University of Biskra- Algeria
Mohamed Amine	Tag	Tebessa University
Abdellah	Touati	Laboratoire de Physique des Rayonnements et de leurs Interactions avec la Matière, University de Batna-1, Batna 05000, Algeria
Moussa	Abbad	University of Tebessa

List of Participants

First name	Last name	Affiliation
Merad	Asma	PRIMALAB ,Department of physics Batna1 University
Ahlam	Bekhouche	PRIMALAB ,Department of physics Batna1 University
kelthoum	Abdaoui	University of Guelma
Samiha	Arroudj	Abbess Laghrour khenchela University
Nabila	Belkhir	Laboratoire de Physique des Plasmas, Matériaux Conducteurs et leurs Applications LPPMCA, Université des Sciences et de la Technologie d'Oran Mohamed Boudiaf USTO-MB
Azoui	Hanane	University of Batna1
Slimane	Lafane	Centre de Développement des Technologies Avancées
Sassia	Zaidi	laboratoire d'optique appliquée, Institut d'optique et mécanique de précision, Université Sétif 1, Sétif, Algérie.
Charaoui	Zohra	faculté de physique, université des sciences et de technologie Oran
Djemai	Bara	CDTA

List of Participants

First name	Last name	Affiliation
Oussama	Benmoussa	Faculty of Matter Sciences, University of Batna 1, Algeria
Salaheddine	Bentridi	Faculty of Science and Technology, University of Khemis Miliana
Hani	Boubekri	Higher Normal School of Technological Education (ENSET) Skikda
Abir	Boubir	PRIMALAB ,Department of physics Batna1 University
Siham	Boudine	university of Bouira
Lazhar	Bouhdjer	department of physics, university of Bouira
Madjid	Diaf	University of Annaba
Reda	Fartas	Université 8 mai GUELMA
Silhadi	Hana	centre de recherche nucléaire d'alger
Aicha	Mohadi	Mathematical and Subatomic Physics Laboratory, Mentouri University, Constantine, Algeria
Bouhdjer	Mohamed Labeled	Pharmacy Department, University of Batna2

List of Participants

First name	Last name	Affiliation
Aziez	Siham	Centre de Recherche Scientifique et Technique en analyse physico-chimique CRAPC, Zone Industrielle lot n°30, Bou Ismail, Tipaza 42415, Algérie.
Abderraouf	Takdenti	Centre Development Technology Avancée
Asmaa	zeboudj	département physique des matériaux -Université des science et de technologie Mohamed Boudiaf usto laboratoire LMESME
Ahmed	Azbouche	Centre de Recherche Nucléaire d'Alger
samiha	Benarous	centre de recherche nucléaire d'Alger (CRNA)
Maroua	Bengroun	Ferhat Abbas university, Setif-1, Setif
Sihem	Berbache	PRIMALAB, Department of physics, Batna1 University
Wassila	Boukhenfouf	DAC Laboratory, Physics Department, Faculty of Sciences, Ferhat ABBAS University, Sétif Algeria
Loubaba	Lahmar	Laboratory of Fundamental and Applied Physics (FUNDAPL), University of Blida1
Chaouki	Lakehal	University of Oum El Bouaghi

List of Participants

First name	Last name	Affiliation
Hanane	Mebrek	University of PRIMALAB Laboratory, Batna, Algeria.
Samra	Nehaoua	University Mohamed Moudiaf M'sila
Abir	Selim	LPAT, Echahid Cheikh Larbi Tebessi University, Tebessa, Algeria.
Walid	Yahia Cherif	Centre de Recherche Nucléaire d'Alger (CRNA)
Dhekra	Yakhlef	PRIMALAB , Batna1 University
Rabia	Amour	USTHB, Bab-Ezzouar, Algiers, Algeria
Nabil	Arab	1Plasma Physics Group, Theoretical Physics Laboratory, Faculty of Physics, University of Bab-Ezzouar,USTHB, B.P. 32, 16111 El Alia, Algiers, Algeria.
Amel	Benahmed	University of Batna1
Moufida	Benzekka	ENS Kouba, Algiers, Algeria
Samir	Chekour	Laboratoire d'Electronique Quantique (LEQ), faculté de physique, USTHB

List of Participants

First name	Last name	Affiliation
Abdelatif	Guezzi	Central commission of nuclear energy/Nuclear research center of Birine
Omar	Hennane	URMER, Research unit for Materials and Renewable Energies-University of Tlemcen 13000, Algeria.
Djebarni	Ilyes	Centre de Développement des Technologies Avancées CDTA
Roumaissa	Malim	University of Biskra
Belabbas	Meryem	University of Abou-bekr Belkaid tlemcen
Hocine	Mesaad	<i>Unité de recherche matériaux et énergies renouvelables, Université Abou bekr Belkaid Tlemcen,</i>
Abdelatif	Tahraoui	Quantum Electronics Laboratory, Faculty of Physics, USTHB
Mohamed	Zouioueche	University of Khenchela
Bouzenada	Abdelmalek	Larbi Tebessi University
Meriem and Badra	ALOUANI and BOUNAAS	PRIMALAB, Batna 1 University, Batna, Algeria

List of Participants

First name	Last name	Affiliation
Hanane	Bouden	University of Biskra
Noura	Benballat	University of Batna 1
Alaeddine	zereg	University of Batna 1
Rania	Guendouz	University of Batna 1
Ahlem	Bennacer	University of Batna 1
Amel	Guerraoui	University of Batna 1
Abdenmour	Guerraoui	University of Batna 1