

8th International Conference on Women in Physics (ICWIP 2023)

Sunday 09 July 2023 - Friday 14 July 2023

Book of abstracts

Table of contents

Opening remarks (0)	1
Introduction to ICWIP (1)	1
Overview of WiP in India (2)	1
Remarks (3)	1
Remarks (TBC) (4)	1
Vote of Thanks (5)	1
Generation of scalar beams fully manipulated in amplitude and wavefront (13)	1
The activities of the Women in Astronomy Working Group of the International Astronomical Union (14)	2
Photoelectrochemical response of non-enzymatic glucose biosensing for BiVO ₄ nanocomposites (15)	2
Defects in Natural Fluorite Crystals Caused by Radiation and Elemental Substitutions (16)	2
Thermal comfort: Temperature and relative humidity of a habitable cell in foamed concrete in Burkina Faso (18)	2
Women Leadership in Physics, Pakistan (19)	3
Existence and formation of small amplitude electrostatic double- layer structure in superthermal plasma (20)	3
Hyperthermia response of graphene-magnetite nanohybrids in AC magnetic field for cancer treatment (21) ..	3
Photoelectrochemical response of non-enzymatic glucose biosensing for BiVO ₄ nanocomposites (22)	3
Women in physics in Pakistan. (23)	3
Steep potentials in Warm Inflation (24)	4
Analysis of turbulence moments and turbulent intensities of wind speed and temperature above a non-uniform terrain in unstable conditions (25)	4
Hybrid photodetectors of triple perovskite with graphene (26)	4
Regulated Infantilization: protection or roadblock? (27)	4
Breath Figure Formation Using PDMS (28)	5
Remarks (29)	5
Invited talk 1 (30)	5
Invited talk 2 (31)	5
Invited talk 3: My Journey in Physics... along the 'Second' Quantum Revolution (32)	5
Invited talk 4: Climate Change Education in Developing Countries (33)	5
Invited talk 5: Investing the origin of diffuse FUV emission in galaxies (34)	5

Invited talk 6: Social science (35)	5
Invited talk 7 (36)	6
Invited talk 8 (37)	6
Finite volume effects on the QCD chiral phase transition using NJL model (38)	6
Pressure induced superconductivity in topological quantum materials (39)	6
Molecular Interactions of Zinc Finger Protein Kaiso with p120 catenin (40)	6
Uphill Diffusion through Point Contact Reaction during Nanoscale Silicide Formation (41)	7
Depth profile of natural gamma-emitting radionuclides in the soils between Kathmandu and Makawanpur (42)	7
Resolving hierarchy problem with dimension-six effective operators and Naturalness (43)	7
Challenges in Choosing Physics as a Career (44)	7
Light induced thermal and electrical transport in graphene-silver nanoparticle nanocomposites for thermoelectric applications (46)	8
Growth of Cobalt Doped β -Ga ₂ O ₃ Crystal for Saturable Absorber Application (47)	8
Proton structure function and parton distributions at small and large x (48)	8
A Case Study on the Non-Isothermal Reaction Kinetic Calculations for Thermal Decomposition leading to Iron Oxide Nanoparticles (49)	8
The torsion of stellar streams and the shape of galactic gravity's source (50)	9
Development of Neutron Interrogation System for Illicit material (51)	9
Impact of the Thicknesses of the p and p+ Regions on the Electrical Parameters of a Bifacial PV Cell (53)	9
Insolation Based Models for solar radiation estimation in three Localities of Burkina -Faso (54)	9
SPECTRAL EFFECT OF A MONOCHROMATIC LIGHT ON THE PERFORMANCE OF A SILICON SOLAR CELL (56)	10
The activities of the women's branch of the Iranian Physics Society (57)	10
Women in Aotearoa-New Zealand: update for 2023 (59)	10
Gender Imbalance in Physics Education and Employment in Germany: Trends and Challenges (60)	10
"Fascinating Science! STEM Role Models": Building bridges for the next generation of scientists (61)	11
Reasons for the persisting underrepresentation of women in physics: insights from research on disciplinary cultures (62)	11
Concept inventories in physics: Multiple-choice or free-text? (63)	11
Magneto-electronic properties of graphene nanoribbons in different electric field under QHE regime (64)	11
Developments of women in physics located in Taipei (65)	12
Revealing deformation phonons of graphene on various substrates by polarized Raman spectroscopy (66)	12
Women in Physics in Spain (68)	12
Measurement Of Radon And Radon Exhalation Rates In Soil Samples From The Traditional Main Halls In The University Of Ghana Campus Using The Sealed-Can Technique (69)	13
Update on the Status of Women in Physics Ghana (70)	13

Current status and Perspective on Diversity in Physics-related Fields in Japan (72)	13
Education of the girl students from marginalized tribal regions of Maharashtra (74)	14
An homemade Solar Tracking system (75)	14
New physics sensitivities of some $b \rightarrow c(u) \bar{c}(\nu)_l$ decay modes (76)	14
Trends of Career Development for Women in Physics and STEM in Belarus (77)	14
Belarusian experience in reducing gender gap in Natural Science using heuristic learning approach in physics education in university (78)	15
Machine Learning in Atmospheric Sciences - How are we catching up? (79)	15
Biomineralization behavior of 58S, 70S and 82S ternary mesoporous bioactive glasses stabilized through ethanol extraction process (80)	15
Graphene Hybrid Scaffolds for Laser Stimulated Neuro-regeneration (81)	15
Challenges for Improving the Status of Women in Physics: Insights from Bangladesh (83)	16
Activities for Diversity and Inclusion in the Japan Society of Applied Physics (84)	16
Comparison of Daily Ground Measurement and Satellite-based Solar Radiation – Nepal Experience (85)	16
The Gender Group in High Energy Physics in India: Efforts and Initiatives towards Gender Equity (86)	17
Molecular properties studies of Choline chloride, Glucose and water-based NADES (87)	17
Quantum Condensed Matter: A Playground for Emergent Phenomena and Complexity and why I am passionate about this field (88)	17
Invited talk 1: H15 My research journey: my challenges and achievements in the field of physics (89)	17
Invited talk 2: Institutional Racism and Sexism in Science (90)	17
Invited talk 6: Exotic plasmas in the lab - past and the future (91)	17
Invited talk 7: A scientific journey towards an inclusive society (92)	18
Invited talk 8: Implications of stochastic parrots for Women in Physics (93)	18
The impact of COVID-19 on the scientific ecosystem (94)	18
The impact of COVID-19 on the scientific ecosystem (95)	18
Q&A (96)	18
A glance at ICWIP2023 (97)	18
Proyecto Equis: Gender inequalities in the trajectory of the Bachelor's degree in Physics. (100)	18
Phase-induced current in thermally driven topological Josephson junction (101)	19
Flexible Phase Change Materials for Electrically-Tuned Active Absorbers (102)	19
Women in physics in the United Kingdom: A review of recent policy and initiatives (103)	19
Machine Learning accelerated Prediction of Bandgap of Cubic Perovskites (104)	19
Neutron Imaging: Basics and Applications (105)	20
Participation of women in physics in the Dominican Republic: An initial approach (106)	20
Moving from 'interest' to 'identity': changing girls' attitudes to careers in space science (107)	20

Low energy phase shift and cross-section analysis of p-He3 system (108)	20
Tailoring magnetic properties of ferromagnetic film on ion irradiated Si (109)	21
Online Round-table Symposium Given by Female Scientists during COVID-19 (110)	21
Hydrophobic silica/water interface studied by sum-frequency vibrational spectroscopy (SFVS) (112)	21
Breaking the Limitation of Polarization Multiplexing in Optical Metasurfaces with Engineered Noise (113) ...	21
Determination of $\text{Co}(\gamma, \text{xp})$ cross section via the surrogate ratio method (114)	22
Study of women representation in the field of relativistic heavy-ion collisions (115)	22
The dark matter direct search at JUSL : the present status (116)	22
EU policy initiatives promoting women in science: Lithuanian Women in Physics in 2023 (117)	22
Synthesis and characterization of Ag ₃ PO ₄ /SnS ₂ composite for hydrogen evolution reaction (118)	23
Institutional Racism and Sexism in Science (119)	23
Towards achieving Gender Equity: Activities of the Gender Group in Condensed Matter Physics (120)	23
Development of an External Cavity Diode Laser (ECDL) to use as an injection seeding for OPOs (121)	24
Women in Physics: Argentina 2023 (122)	24
Science Academies of India: Contributions towards Women in Science (123)	24
Understanding Huygens principle & verifying laws of light propagation: a mathematical approach (124)	25
The GATI Pilot: Influencing Policies, Organizational Culture and Strategic Vision (125)	25
Women in Physics: State of the Nation (France) (126)	25
Impacts of the pandemic and governmental change on Brazil's Physics (127)	26
Choosing Between Physics and Engineering, by Gender: A Canadian Study of Socio-Cultural Factors (128) ...	26
Striving for Equity in Canadian Physics (129)	26
Stochastic Dynamics of a Feshbach-coupled Atomic-Molecular Bose-Einstein Condensate (130)	26
A study of vertical exclusion in a profession with a higher percentage of women in the labor market. (131) ...	27
Rocket Girls (134)	27
Postwar Consequences on Tigray Female Physicist on Northern Ethiopia (135)	27
Women in Physics in the Philippine Academe (137)	27
Efforts for gender equality in Chinese higher education institutions (138)	28
Initiatives and Progress for Women in Physics: A Status Update from Ethiopia (139)	28
Women in Physics in Zimbabwe: Where are they now? (140)	28
Strategies to encourage young females to pursue Physics in South Africa: Achievements and Challenges (143)	28
In our language, POLAND is a 'she', just like PHYSICS (144)	29
"Science for Women: A Technology and Innovation" Portal (145)	29
Beginning and development of the physics in Nicaragua: the role of women in this history (146)	29
Labhopping: A journey to find Indian Women in Science (147)	29

Women in physics: Students and faculty members in Turkish higher education (148)	30
Verification of pairwise non-locality trade-off in 3-qubit pure symmetric states using the IBM open access quantum computer ibmq_belem (149)	30
Progress of Women Physicists in Egypt Supported by Legislations (150)	30
Designing a teaching grade phase contrast microscope on an optical bench (152)	30
SPECTRAL EFFECT OF A MONOCHROMATIC LIGHT ON THE PERFORMANCE OF A SILICON SOLAR CELL (154)	31
Long-Range Planning for Diversity and Equity in Nuclear Science (155)	31
Workshop on Women's Leadership in Physics (156)	31
Exploring the Single Slit Diffraction Experiment (158)	31
Gender imbalance in university scientific career in Morocco (160)	31
SOLAR QUIET (SQ) DAILY CURRENT VARIATIONS CONTRIBUTIONS TO THE EARTH CONDUCTIVITY WITHIN SOME SOUTHERN AFRICAN COUNTRIES (162)	32
Space charge contributions to the dielectric response and breakdown strength of high-temperature polyetherimide/polyimide blends (163)	32
The impact of COVID-19 on the scientific ecosystem (164)	32
Master Class: Preparing a contribution for ICWIP Proceedings (165)	32
Physics publishers' perspective of gender equity in the physical sciences (166)	32
The impact on IUPAP of the Working Group on Women in Physics (167)	32
Remarks (168)	32
Remarks (169)	33
Toward Gender Equity in Physics: The Changing Scenario in Indian Academia (170)	33
Nigeria: Exploring the computational challenges of women in physics (171)	33
Mineralogical Characterization of the Serra Pelada Meteorite by Energy Dispersive X Ray Fluorescence and X Ray Diffractometry (173)	34
Woman in physics in Senegal (174)	34
Gender Equality in Physics: numbers and actions in Italy (177)	34
Charge-Transfer Complex Formation in Organic Semiconductor Films: role in Surface Doping (178)	34
WOMEN IN PHYSICS IN YEMEN (179)	35
Contribution of women researchers in physics in scientific fields at the Faculty of Sciences of the University Mohammed the first (181)	35
Empowering Women to Excel and Lead in All Sectors for Sustainable and Better Future (183)	35
Fast timing characteristics with $\boldsymbol{1.5^{\prime\prime} \times 1.5^{\prime\prime}}$ CeBr ₃ detectors (184)	35
Simulation of successive Cascades in Fe-Ni-Cr Model Alloy using Molecular Dynamics for studying Defect Microstructure during ion irradiation (185)	36
Experience with Development Workshop with Gender Perspective for Early Career Scientists and Students (187)	36

Facing gender bias to young women physicists: subtle or explicit? (188)	36
Predicting Solar Wind using Reservoir Computing (190)	36
Intermittency analysis to understand multiparticle production in the heavy- ion collisions (191)	37
Women & Girls in Physics, Democratic Republic of Congo. (197)	37
Plasmon-Exciton Interactions in Bilayers of Core-Shell Au-SiO ₂ Nanoparticles and FAPbI ₃ Perovskite Nanocrystals (198)	37
Finite volume effects on the QCD chiral phase transition using NJL model (199)	37
Non-Destructive Evaluation of Static Objects using Cosmic-Ray Muons (200)	38
Women Physicists in Switzerland (202)	38
Finite-Time Behaviour of Vacuum Instability: Electron-Positron Creation in Strong Electric Fields (203)	38
DETECTION OF ATMOSPHERIC TIDES AT LAKE TANGANYIKA ANALYSIS BY FOURIER (204)	38
The Netherlands: update on diversity and inclusion (206)	39
Paper Title is here: Times new roman 14 pt bold, centred (207)	39
Dark matter in Two-singlet extension of Standard Model (208)	39
Bulk Heterojunctions of Cesium Lead Halide Nanocrystals with Fullerene Derivatives for Light Harvesting Applications (209)	39
Comparative Analysis of the Situation of Female Students in the Physical Sciences at the Universidad Nacional Mayor de San Marcos (211)	40
Development of New-Generation Gaseous Detectors for Nuclear Physics (212)	40
SOLAR QUIET (SQ) DAILY CURRENT VARIATIONS CONTRIBUTIONS TO THE EARTH CONDUCTIVITY WITHIN SOME SOUTHERN AFRICAN COUNTRIES (213)	40
Progress of Women Physicists in Egypt Supported by Legislations (216)	41
Women in Physics in Israel: An Overview (220)	41
Dummy abstract for testing interfaces and experiences of the authors (222)	41
From the first women physicists to members of the Russian Academy of Sciences (223)	41
Current status for women in physics Zambia (224)	42
Vigyan Vidushi – a unique initiative for mentoring aspiring young women (225)	42
Activity of AAPPS-WIP (226)	42
Recent Activities of the Women’s Committee of the Korean Physical Society (227)	42
Analyzing implicit gender bias in Optics and Photonics at the predoctoral stage in Spain (228)	43
Women in Physics Participation in Leadership and Decision-Making Positions in Uganda (231)	43
Overview of the activities of the IUPAP group for women in physics in Serbia in the last three years (232)	43
Women in physics in Slovenia (234)	44
TBA (235)	44
Activities of the Working Group for Gender Equity (WGGE) of the Astronomical Society of India (ASI) (237)	44
Networks and collaborations that increase Mexican women’s participation in physics. (238)	44

Discussion on resolutions (239)	44
---------------------------------------	----

Inauguration / 0

Opening remarks

Corresponding Author: nanal@tifr.res.in

Inauguration / 1

Introduction to ICWIP

Inauguration / 2

Overview of WiP in India

Inauguration / 3

Remarks

Inauguration / 4

Remarks (TBC)

Inauguration / 5

Vote of Thanks

Poster-14 / 13

Generation of scalar beams fully manipulated in amplitude and wavefront

Author: Mrs. MANSI, Baliyan¹

Co-Author: Prof. NISHCHAL, Naveen¹

¹ Indian Institute of Technology Patna

Corresponding Author: nknishchal@yahoo.com

Poster-12 / 14

The activities of the Women in Astronomy Working Group of the International Astronomical Union

Author: Dr. SHAH, Priya ¹

Co-Author: Prof. POMMIER, Mamta ²

¹ Maulana Azad National Urdu University

² UNIVERSITÉ DE MONTPELLIER, France

Corresponding Author: priya.hasan@gmail.com

Poster-13 / 15

Photoelectrochemical response of non-enzymatic glucose biosensing for BiVO₄ nanocomposites

SHABBIR, Syeda ammara ¹

¹ Forman Christian college

Corresponding Author: ammaraanwar@fccollege.edu.pk

Poster-12 / 16

Defects in Natural Fluorite Crystals Caused by Radiation and Elemental Substitutions

Author: Dr. HALDER BANERJEE, RUMU ¹

Co-Author: Dr. SENGUPTA, Pranesh ¹

¹ BHABHA ATOMIC RESEARCH CENTRE

Corresponding Author: rumuhalder24feb@gmail.com

Poster-12 / 18

Thermal comfort: Temperature and relative humidity of a habitable cell in foamed concrete in Burkina Faso

Author: OUEDRAOGO, Lareba Adélaïde ¹

Co-Author: Prof. KAM, Sié ²

¹ Joseph KI-ZERBO University

² Université Joseph KI-ZERBO

Corresponding Author: adeo62@yahoo.fr

Poster-11 / 19

Women Leadership in Physics, Pakistan

Author: Dr. SHAHI, Shahida Parveen¹

Co-Author: Prof. ANISA, Anisa Qamar²

¹ Department of Physics, Shaheed Benazir Bhutto women University

² Department of Physics, University of Peshawar

Corresponding Author: shahida.perveen@sbbwu.edu.pk

Poster-14 / 20

Existence and formation of small amplitude electrostatic double- layer structure in superthermal plasma

ADNAN, Muhammad Adnan¹

¹ Department of Physics, Kohat University of Science and Technology (KUST), 26000, Kohat, Pakistan

Corresponding Author: shahida.perveen@sbbwu.edu.pk

Poster-13 / 21

Hyperthermia response of graphene-magnetite nanohybrids in AC magnetic field for cancer treatment

Dr. KHUSH BAKHAT, Khush Bakhat Akram¹

¹ National University of Technology (NUTECH), Main IJP Road, Sector I- 12, Islamabad, Pakistan

Corresponding Author: shahida.perveen@sbbwu.edu.pk

Poster-13 / 22

Photoelectrochemical response of non-enzymatic glucose biosensing for BiVO₄ nanocomposites

Dr. SYEDA AMMARA, Syeda Ammara Shabbir,¹

¹ Department of Physics, Forman Christian College (A Chartered University, Lahore, Pakistan

Corresponding Author: shahida.perveen@sbbwu.edu.pk

Poster-12 / 23

Women in physics in Pakistan.

Ms. RIZWANA, Rizwana¹

¹ Deparment of Physics, University of Karachi, Pakistan

Corresponding Author: shahida.perveen@sbbwu.edu.pk

Poster-14 / 24

Steep potentials in Warm Inflation

Dr. DAS, Suratna¹

¹ *Ashoka University*

Corresponding Author: suratna.das.2007@gmail.com

Poster-12 / 25

Analysis of turbulence moments and turbulent intensities of wind speed and temperature above a non-uniform terrain in unstable conditions

Author: Dr. MAMADOU, Ossénatou¹

Co-Authors: Mr. MARISCAL, Armand²; Mr. KOUKOUTI, Renaud³; Ms. HOUNSINOU, Miriam⁴

¹ *Institute of Mathematics and Physics, University of Abomey-Calavi*

² *IRD*

³ *Institute of Mathematics and Physics, Bénin*

⁴ *Institute of Mathematics and Physics, Benin*

Corresponding Author: ossenatou.mamadou@imsp-uac.org

Poster-13 / 26

Hybrid photodetectors of triple perovskite with graphene

Author: Prof. CHEN, Mei-Hsin¹

Co-Authors: Mr. XIE, Pei-Hong²; Mr. XU, Rong-Sheng¹

¹ *National Taipei University of Technology*

² *National Taipei University of Technology*

Corresponding Author: mhchen@mail.ntut.edu.tw

Poster-12 / 27

Regulated Infantilization: protection or roadblock?

Prof. MADHURIMA, V¹

¹ *Central University of Tamil Nadu*

Corresponding Author: madhurima.cutn@gmail.com

Poster-13 / 28

Breath Figure Formation Using PDMS

Author: Prof. MADHURIMA, V¹

Co-Author: Ms. P V, Swathi²

¹ *Central University of Tamil Nadu*

² *Central University of Tamil Nadu, Thiruvarur, 610005, Tamil Nadu, India*

Corresponding Author: madhurima.cutn@gmail.com

Inauguration / 29

Remarks

30

Invited talk 1

31

Invited talk 2

Plenary 2 / 32

Invited talk 3: My Journey in Physics... along the 'Second' Quantum Revolution

Plenary 2 / 33

Invited talk 4: Climate Change Education in Developing Countries

Plenary 2 / 34

Invited talk 5: Investigating the origin of diffuse FUV emission in galaxies

Plenary 4 / 35

Invited talk 6: Social science

Plenary 4 / 36

Invited talk 7

Plenary 4 / 37

Invited talk 8

Poster-14 / 38

Finite volume effects on the QCD chiral phase transition using NJL model

Author: Ms. SHAIKH, Adiba¹

Co-Authors: Prof. MOHAPATRA, Ranjita²; Dr. DATTA, Saumen³

¹ *Indian Institute of Technology Bombay*

² *Rajdhani College, Bhubaneswar - 751003*

³ *DTP, TIFR*

Corresponding Author: adibashaikh9@gmail.com

Poster-13 / 39

Pressure induced superconductivity in topological quantum materials

MALAVI, Pallavi¹

¹ *Bhabha Atomic Research Centre*

Corresponding Author: spallavi@barc.gov.in

Poster-13 / 40

Molecular Interactions of Zinc Finger Protein Kaiso with p120 catenin

Author: Mrs. THAPA, Bidhya¹

Co-Authors: Prof. ADHIKARI, Narayan²; Prof. CHAPAGAIN, Prem³; Dr. TIWARI, Purushottam⁴

¹ *Central Department of Physics, Tribhuvan University, Nepal*

² *Central Department of Physics, Tribhuvan University, Nepal*

³ *Florida International University, Miami, FL, USA*

⁴ *Georgetown University, Washington D.C., USA.*

Corresponding Author: bidhya.775711@iost.tu.edu.np

Poster-13 / 41

Uphill Diffusion through Point Contact Reaction during Nanoscale Silicide Formation

Prof. CHOU, Yi-Chia ¹

¹ *National Taiwan University*

Corresponding Author: ycchou@ntu.edu.tw

Poster-14 / 42

Depth profile of natural gamma-emitting radionuclides in the soils between Kathmandu and Makawanpur

Author: Dr. MISHRA, Anita ¹

Co-Author: Prof. KHANAL, Raju ²

¹ *Central Department of Physics, Tribhuvan University*

² *CDP, Tribhuvan University*

Corresponding Author: nanu.lm@gmail.com

Poster-14 / 43

Resolving hierarchy problem with dimension-six effective operators and Naturalness

Author: BISWAS, Ambalika ¹

Co-Authors: Prof. KUNDU, Anirban ²; Ms. MONDAL, Poulami ²

¹ *Banwarilal Bhalotia College, Asansol*

² *Department of Physics, University of Calcutta*

Corresponding Author: ani73biswas@gmail.com

Poster-12 / 44

Challenges in Choosing Physics as a Career

Dr. DEVI, Moon Moon ¹; Dr. GOGOI, Rupjyoti ²; Dr. DAS, Sarmistha ¹

¹ *Tezpur University, Assam, India*

² *Tezpur University*

Corresponding Author: devi.moonmoon@gmail.com

Poster-13 / 46

Light induced thermal and electrical transport in graphene-silver nanoparticle nanocomposites for thermoelectric applications

Dr. TIWARI, Archana¹

¹ *Banaras Hindu University*

Corresponding Author: archana.tiwari@bhu.ac.in

Poster-13 / 47

Growth of Cobalt Doped β -Ga₂O₃ Crystal for Saturable Absorber Application

Author: Ms. MANTRI, Priyanshi¹

Co-Authors: Dr. SOHARABH, Mohammad²; Dr. BHATT, Rajeev²; Mrs. KARN, Ratna³; Dr. BHAUMIK, Indranil²

¹ *Intern at Laser and Functional Materials Division, RRCAT Indore, India*

² *Scientific Officer*

³ *RRCAT Indore*

Corresponding Author: mantripriyanshi@gmail.com

Poster-14 / 48

Proton structure function and parton distributions at small and large x

Dr. JAHAN, Akbari¹

¹ *North Eastern Regional Institute of Science and Technology*

Corresponding Author: akbari.jahan@gmail.com

Poster-13 / 49

A Case Study on the Non-Isothermal Reaction Kinetic Calculations for Thermal Decomposition leading to Iron Oxide Nanoparticles

Author: Ms. CHAKRABORTY, MANISHA¹

Co-Author: Prof. BHATTACHARJEE, ASHIS²

¹ *VISVA BHARATI UNIVERSITY*

² *Visva Bharati University*

Corresponding Author: manishachakraborty.rs@visva-bharati.ac.in

Poster-14 / 50

The torsion of stellar streams and the shape of galactic gravity's source

Author: Dr. LLANES-ESTRADA, Felipe J.¹

Co-Author: Mrs. BARIEGO-QUINTANA, Adriana²

¹ Universidad Complutense de Madrid

² IFIC, Universidad de Valencia

Corresponding Author: adriana.bariego@gmail.com

Poster-14 / 51

Development of Neutron Interrogation System for Illicit material

Dr. BISHNOI, Saroj¹

¹ Bhabha Atomic REsearch Center

Corresponding Author: saroj@barc.gov.in

Poster-13 / 53

Impact of the Thicknesses of the p and p+ Regions on the Electrical Parameters of a Bifacial PV Cell

Dr. KONATE, Ramatou¹

¹ Université Joseph KI-ZERBO

Corresponding Author: korama_ms@yahoo.fr

Poster-13 / 54

Insolation Based Models for solar radiation estimation in three Localities of Burkina -Faso

Author: Dr. MOGMENGA, Ladifata¹

Co-Authors: Mr. NANA, G.Gilbert²; Dr. BADO, Nebon²; Dr. KY, Thierry Sikoudouin Maurice²; Prof. KAM, Sié³; Prof. HARTITI, Bouchaib⁴; Prof. THEVENIN, Philippe⁵

¹ University Joseph KI-ZERBO, Laboratory of REnewable Thermal Energies

² University Joseph KI-ZERBO, Laboratory of REnewable Thermal Energies

³ University Joseph KI-ZERBO, Laboratory of REnewable Thermal Energies,

⁴ University Hassan II of Casablanca, ERDyS Laboratory GMEEM and DD Group

⁵ LMOPS Laboratory, University of Lorraine

Corresponding Author: ladifata.mogmenga@yahoo.fr

Poster-13 / 56

SPECTRAL EFFECT OF A MONOCHROMATIC LIGHT ON THE PERFORMANCE OF A SILICON SOLAR CELL

Ms. SARE, Ramatou ¹

¹ Université Joseph KI-ZERBO

Corresponding Author: sarerama3@gmail.com

Poster-11 / 57

The activities of the women's branch of the Iranian Physics Society

Author: Prof. IRAJI ZAD, Azam ¹

Co-Authors: Dr. KIMIAGAR, Salimeh ²; Dr. MOSIVAND, Saba ³

¹ Physics Department and Institute for Convergence Science and Technology, Sharif University of Technology, Tehran, Iran

² Nano physic Research Lab (NRL), Physics Department, Central Tehran Branch, Islamic Azad University, Tehran, Iran

³ Physics Department, Faculty of Science, Lorestan University, Khorram-Abad, Iran

Corresponding Author: irajizad@gmail.com

Poster-11 / 59

Women in Aotearoa-New Zealand: update for 2023

Author: Dr. SHEPHERD, Jami ¹

Co-Authors: Dr. PAHL, Elke ²; Prof. VANHOLSBEECK, Frederique ³; Dr. ADAM, Ludmila ³

¹ University of Auckland and Dodd-Walls Centre for Photonic and Quantum Technologies and MacDiarmid Institute

² University of Auckland

³ University of Auckland and Dodd-Walls Centre for Photonic and Quantum Technologies

Corresponding Author: jami.shepherd@auckland.ac.nz

Poster-11 / 60

Gender Imbalance in Physics Education and Employment in Germany: Trends and Challenges

Ms. SANDNER, Agnes ¹; Ms. BOSSMANN, Andrea ²; Ms. ZACARIAS, Angelica ³; Dr. METZELTHIN, Anja ⁴; Dr. TRAULSEN, Iris ⁵; Dr. AGANOGLU, Ruzin ¹; Dr. BÖHM, Ulrike ⁶

¹ German Physical Society, Working Group on Equal Opportunities

² Freie Universität Berlin

³ Max Planck Institute of Microstructure Physics

⁴ German Physical Society

⁵ Leibniz-Institut für Astrophysik Potsdam

⁶ Carl Zeiss AG

Corresponding Author: ruzin@physik.fu-berlin.de

Poster-13 / 61

“Fascinating Science! STEM Role Models”: Building bridges for the next generation of scientists

Ms. ZACARIAS, Angelica¹; Ms. SANDNER, Agnes²; Dr. TRAULSEN, Iris³; Dr. AGANOGLU, Ruzin²

¹ Max Planck Institute of Microstructure Physics

² German Physical Society, Working Group on Equal Opportunities

³ Leibniz-Institut für Astrophysik Potsdam

Corresponding Author: ruzin@physik.fu-berlin.de

Poster-12 / 62

Reasons for the persisting underrepresentation of women in physics: insights from research on disciplinary cultures

Authors: Ms. BOSSMANN, Andrea Bianca¹; Prof. ERLEMANN, Martina¹

Co-Author: Ms. SANDNER, Agnes²

¹ Department of Physics, Freie Universität Berlin, Arnimallee 14, 14195 Berlin, Germany

² German Physical Society, Working Group on Equal Opportunities, Hauptstr. 5, 53604 Bad Honnef, Germany

Corresponding Author: abossmann@googlemail.com

Poster-13 / 63

Concept inventories in physics: Multiple-choice or free-text?

Author: Prof. JORDAN, Sally¹

Co-Authors: Dr. HEDGELAND, Holly²; Dr. NYLK, Jonathan¹; Dr. PARKER, Mark¹; Mr. PATHAK, Ashutosh Kumar¹

¹ The Open University

² University of Cambridge

Corresponding Author: sally.jordan@open.ac.uk

Poster-13 / 64

Magneto-electronic properties of graphene nanoribbons in different electric field under QHE regime

Author: Ms. THAKUR, Akansha¹

Co-Author: Mr. SARKAR, Niladri²

¹ Birla Institute of technology,Pilani

² Birla Institute of Technology, Pilani

Corresponding Author: p20200447@pilani.bits-pilani.ac.in

Poster-11 / 65

Developments of women in physics located in Taipei

Author: Prof. LU, Ting-Hua ¹

Co-Authors: Prof. CHEN, Mei-Hsin ²; Prof. CHANG, Ming-Chuan ³; Prof. CHOU, Yi-Chia ⁴; LIN, Lihwai ⁵

¹ National Taiwan Normal University

² National Taipei University of Technology

³ Fu-Jen Catholic University

⁴ National Taiwan University

⁵ Academia Sinica Institute of Astronomy and Astrophysics

Corresponding Author: thlu@ntnu.edu.tw

Poster-13 / 66

Revealing deformation phonons of graphene on various substrates by polarized Raman spectroscopy

Author: Prof. LU, Ting-Hua ¹

Co-Author: Ms. CHANG, Yu-Chen ¹

¹ National Taiwan Normal University

Corresponding Author: thlu@ntnu.edu.tw

Poster-11 / 68

Women in Physics in Spain

Author: Prof. PASCUALA, García-Martínez ¹

Co-Authors: Prof. OCAL, Carmen ²; Dr. LOPEZ-DIAZ, Ana X. ³; Prof. MARTIN, Alberto ⁴; Dr. ESTRADE, Sonia ⁵

¹ University of Valencia

² Institut de Ciència de Materials de Barcelona (ICMAB-CSIC)

³ EPEF-Campus Industrial de Ferrol, Universidade da Coruña

⁴ Depto de Física Aplicada, Universidad de Granada

⁵ Dept de Ingeniería Electrónica y Biomedicina, Universitat de Barcelona

Corresponding Author: pascuala.garcia@uv.es

Poster-12 / 69

Measurement Of Radon And Radon Exhalation Rates In Soil Samples From The Traditional Main Halls In The University Of Ghana Campus Using The Sealed-Can Technique

Author: Dr. OPOKU-NTIM, Irene ¹

Co-Authors: Mr. ABOAGYE DARKWA, Charles ²; Prof. BENTIL ANDAM, Aba ³

¹ *Ghana Atomic Energy Commission*

² *University of Ghana*

³ *School of Nuclear and Allied Sciences*

Corresponding Author: ina82ma@gmail.com

Poster-11 / 70

Update on the Status of Women in Physics Ghana

Author: Dr. OPOKU-NTIM, Irene ¹

Co-Authors: Prof. BENTIL ANDAM, Aba ²; Dr. HOOD, Christiana Odumah ³; Dr. GYAMFI, Kwame ⁴; Prof. AMPONSAH, Paulina Ekua ⁵; Ms. NYARKO, Savannah ³

¹ *Ghana Atomic Energy Commission*

² *School of Nuclear and Allied sciences*

³ *University of Cape Coast*

⁴ *Ghana Atomic energy Commission*

⁵ *School of Nuclear and Allied Sciences*

Corresponding Author: ina82ma@gmail.com

Poster-11 / 72

Current status and Perspective on Diversity in Physics-related Fields in Japan

NONAKA, Chiho ¹; Dr. MATSUKI, Nobuyuki ²; SHOJI, Ichiro ³; CHIKUMOTO, Noriko ⁴; HAMAGUCHI, Koichi ⁵; Dr. ITAKURA, Akiko ⁶; KOBAYASHI, Kaya ⁷; Prof. NOJIRI, MIHOKO ⁸

¹ *Hiroshima University*

² *Kanagawa University*

³ *Chuo University*

⁴ *Chubu University*

⁵ *University of Tokyo*

⁶ *National Institute for Materials Science*

⁷ *Okayama University*

⁸ *KEK*

Corresponding Author: nchiho@hiroshima-u.ac.jp

Poster-13 / 74

Education of the girl students from marginalized tribal regions of Maharashtra

Dr. REDIJ, Asmita¹

¹ HBCSE-TIFR

Corresponding Author: asmita@hbcse.tifr.res.in

Poster-12 / 75

An homemade Solar Tracking system

Author: Dr. KO, Gaëlle Kafira¹

Co-Authors: Dr. N'TSOUKPOE, Kokouvi Edem²; Dr. GOMNA, Aboubakar³

¹ Laboratoire d'Énergies Thermiques RENouvelables (LETRE), Ecole Normal Supérieure (ENS), 01 BP 1757 Ouagadougou 01, Ouagadougou, Burkina Faso

² Laboratoire Energies Renouvelables et Efficacité Energétique (LabERE), Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE), Ouagadougou, Burkina Faso.

³ Laboratoire Energies Renouvelables et Efficacité Energétique (LabERE), Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE), Ouagadougou, Burkina Faso

Corresponding Author: gaelle_kafira@yahoo.fr

Poster-14 / 76

New physics sensitivities of some $b \rightarrow c (u) l \bar{\nu}_l$ decay modes

Author: MAWLONG, BARILANG¹

Co-Author: JAIN, Karthik²

¹ UNIVERSITY OF HYDERABAD

² University of Hyderabad

Corresponding Author: barilang@uohyd.ac.in

Poster-11 / 77

Trends of Career Development for Women in Physics and STEM in Belarus

Author: TASHLYKOVA-BUSHKEVICH, Iya¹

Co-Authors: BANDARENKA, Hanna²; KHILMANOVICH, Valiantsina³; BOBRYK, Aliaksei¹; RUSETSKAYA, Tatiana¹

¹ Belarusian State University of Informatics and Radioelectronics (BSUIR)

² Belarusian State University of Informatics and Radioelectronics

³ Grodno State Medical University

Corresponding Author: iya.itb@gmail.com

Poster-13 / 78

Belarusian experience in reducing gender gap in Natural Science using heuristic learning approach in physics education in university

Author: TASHLYKOVA-BUSHKEVICH, Iya¹

Co-Authors: BOBRYK, Aliaksei¹; RUSETSKAYA, Tatiana¹

¹ Belarusian State University of Informatics and Radioelectronics (BSUIR)

Corresponding Author: iya.itb@gmail.com

Poster-12 / 79

Machine Learning in Atmospheric Sciences - How are we catching up?

Author: DAS, Uma¹

Co-Authors: Dr. BANDYOPADHYAY, Oishila¹; Mr. PAL, Soumyajit¹

¹ Indian Institute of Information Technology Kalyani

Corresponding Author: uma@iiitkalyani.ac.in

Poster-13 / 80

Biomineralization behavior of 58S, 70S and 82S ternary mesoporous bioactive glasses stabilized through ethanol extraction process

Mrs. KANDARI, Sudipta¹

¹ Assistant Professor

Corresponding Author: sudi1995rawat@gmail.com

Poster-14 / 81

Graphene Hybrid Scaffolds for Laser Stimulated Neuro-regeneration

Author: Ms. A, Dhanusha¹

Co-Author: Dr. T C, Sabari Girisun¹

¹ Bharathidasan University

Corresponding Author: ahsunahd96@gmail.com

Poster-11 / 83

Challenges for Improving the Status of Women in Physics: Insights from Bangladesh

Author: CHOUDHURY, Shamima ¹

Co-Authors: Prof. KAZI, Hanium Maria ¹; FERDOUS, Humayra ²; Prof. ISLAM, RAIHANA SHAMS ³; SHARMIN, Mehnaz ⁴

¹ University of Dhaka

² American International University' Bangladesh (AIUB)

³ University of Rajshahi, Bangladesh

⁴ Bangladesh University of Engineering and Technology (BUET)

Corresponding Author: skc.phy@gmail.com

Poster-12 / 84

Activities for Diversity and Inclusion in the Japan Society of Applied Physics

Prof. CHIKUMOTO, Noriko ¹; SHOJI, Ichiro ²; Dr. MATSUKI, Nobuyuki ³

¹ Chubu university

² Chuo University

³ Kanagawa University

Corresponding Author: ishoji@elect.chuo-u.ac.jp

Poster-14 / 85

Comparison of Daily Ground Measurement and Satellite-based Solar Radiation – Nepal Experience

Author: Mrs. JOSHI, Usha ¹

Co-Authors: Mr. CHAPAGAIN, Narayan Prasad ²; Mr. KARKI, Indra Bahadur ¹; Mr. POUDYAL, Khem Narayan ³

¹ Patan Multiple Campus, Tribhuvan University

² Amrit Campus, Tribhuvan University

³ Pulchowk Campus, IOE, Tribhuvan University

Corresponding Author: ushajoshik1967@gmail.com

Poster-12 / 86

The Gender Group in High Energy Physics in India: Efforts and Initiatives towards Gender Equity

Authors: Prof. MOHANTA, Rukmani ¹; Dr. DEVI, Moon Moon ²; GOSWAMI, Srubabati ³

Co-Authors: Dr. DAHIYA, Harleen ⁴; Dr. SHAH, Neha ⁵; Dr. BANERJEE, Nabamita ⁶; SRIVASTAVA, Ajit M ⁷

¹ University of Hyderabad

² Tezpur University, Assam, India

³ Physical Research Laboratory

⁴ Dr. B. R. Ambedkar National Institute of Technology

⁵ Indian Institute of Technology Patna

⁶ IISER Bhopal

⁷ Institute of Physics

Corresponding Author: rmsp@uohyd.ac.in

Poster-14 / 87

Molecular properties studies of Choline chloride, Glucose and water-based NADES

Dr. THONGAM, Gomti Devi ¹

¹ Manipur University

Corresponding Author: tgd@manipuruniv.ac.in

Keynote talk (K1) / 88

Quantum Condensed Matter: A Playground for Emergent Phenomena and Complexity and why I am passionate about this field

Plenary 1 / 89

Invited talk 1: H15 My research journey: my challenges and achievements in the field of physics

Plenary 1 / 90

Invited talk 2: Institutional Racism and Sexism in Science

Plenary 4 / 91

Invited talk 6: Exotic plasmas in the lab - past and the future

Plenary 4 / 92

Invited talk 7: A scientific journey towards an inclusive society

Plenary 4 / 93

Invited talk 8: Implications of stochastic parrots for Women in Physics

Plenary 3: Panel Discussion / 94

The impact of COVID-19 on the scientific ecosystem

Plenary 3: Panel Discussion / 95

The impact of COVID-19 on the scientific ecosystem

Plenary 3: Panel Discussion / 96

Q&A

Inauguration / 97

A glance at ICWIP2023

Corresponding Author: sruba.goswami@gmail.com

Poster-13 / 100

Proyecto Equis: Gender inequalities in the trajectory of the Bachelor 's degree in Physics.

Author: Ms. BESSONART, Magdalena ¹

Co-Authors: Ms. STARI, Cecilia ¹; Ms. SEDOFEITO, Camila ¹; Mr. ANZIBAR, Maximiliano ¹; Mr. RINDERKNECHT, Felipe ¹; Ms. PELAEZ, Marcela ¹

¹ *Universidad de la República*

Corresponding Author: sedofeitoc@gmail.com

Poster-13 / 101

Phase-induced current in thermally driven topological Josephson junction

Dr. DUTTA, Paramita¹

¹ *Physical Research Laboratory*

Corresponding Author: prmt.dutta@gmail.com

Poster-14 / 102

Flexible Phase Change Materials for Electrically-Tuned Active Absorbers

Ms. LIU, Yu¹; Dr. WANG, Jia-Nan¹; Prof. PENG, Ruwen²; Prof. WANG, Mu¹

¹ *Nanjing University*

² *Nanjing University, China*

Corresponding Author: dz1922015@smail.nju.edu.cn

Poster-11 / 103

Women in physics in the United Kingdom: A review of recent policy and initiatives

Author: Prof. JORDAN, Sally¹

Co-Authors: BAKEWELL, Sarah²; Dr. BERRY, Tracey³; Dr. CAMPBELL, Holly⁴; Dr. COLTMAN, Josie⁵; SADLER, Wendy⁶; Ms. SETTY, Chethana⁷

¹ *The Open University*

² *The Institute of Physics*

³ *Royal Holloway, London*

⁴ *UK Atomic Energy Authority*

⁵ *AWE*

⁶ *Cardiff University/Science Made Simple*

⁷ *The Open University, United Kingdom*

Corresponding Author: sally.jordan@open.ac.uk

Poster-13 / 104

Machine Learning accelerated Prediction of Bandgap of Cubic Perovskites

Author: Ms. PONKIYA, Zarna D.¹

Co-Authors: Dr. SATTIGERI, Raghottam M.²; Prof. JHA, Prafulla K.¹

¹ *Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India-390002*

² *International Research Centre MagTop, Institute of Physics, Polish Academy of Sciences, aleja/Lotników 32/46, Warsaw, Poland 02-668*

Corresponding Author: zarnaponkiya@gmail.com

Poster-14 / 105

Neutron Imaging: Basics and Applications

Author: Mrs. SHUKLA, Shefali¹

Co-Authors: Mr. MORE, M.R.²; Mr. ROY, Tushar²; Mr. KASHYAP, Y.S.²; Mr. SINGH, Prashant²; Mr. SHUKLA, Mayank²

¹ *Bhabha Atomic Research Centre*

² *Bhabha Atomic Research Centre*

Corresponding Author: shefali@barc.gov.in

Poster-12 / 106

Participation of women in physics in the Dominican Republic: An initial approach

Author: Dr. ENCARNACIÓN, Emma¹

Co-Authors: Dr. SAMSON, Inna¹; Prof. ALVAREZ, Moisés¹; Ms. CABA, Thara¹; Ms. SANTOS, Laura¹

¹ *Dominican Physical Society*

Corresponding Author: eencarnacion47@uasd.edu.do

Poster-13 / 107

Moving from 'interest' to 'identity': changing girls' attitudes to careers in space science

Author: SADLER, Wendy¹

Co-Authors: Dr. BARTLETT, Sophie²; LEVERMENT, Shaaron³

¹ *Cardiff University/Science Made Simple*

² *Cardiff University*

³ *Explorerdome & ASDC, UK*

Corresponding Author: sadlerwj@cardiff.ac.uk

Poster-14 / 108

Low energy phase shift and cross-section analysis of p-He3 system

Author: Mr. SWAIN, BISWANATH¹

Co-Author: Prof. LAHA, Ujjwal²

¹ *National Institute of Technology, Jamshedpur*

² *National Institute of Technology, Jamshedpur*

Corresponding Author: biswanathswain73@gmail.com

Poster-13 / 109

Tailoring magnetic properties of ferromagnetic film on ion irradiated Si

Author: Ms. JAFRI, Yasmeen¹

Co-Authors: Ms. VASDEV, Aastha²; Dr. SHEET, Goutam²; Dr. SHARMA, Kavita¹; Dr. SHARMA, Gagan¹; Prof. GUPTA, Ajay³

¹ Amity University, Noida, India

² IISER, Mohali, India

³ University of Petroleum and Energy Studies, Dehradun, India

Corresponding Author: yasmeen.jafri139@gmail.com

Poster-11 / 110

Online Round-table Symposium Given by Female Scientists during COVID-19

Author: Dr. LU, Ying¹

Co-Authors: Prof. GUO, Xia²; Prof. PENG, Ruwen³; Prof. JIN, Kuijuan¹

¹ Institute of Physics, Chinese Academy of Sciences

² Beijing University of Posts and Telecommunications

³ Nanjing University, China

Corresponding Author: yinglu@iphy.ac.cn

Poster-13 / 112

Hydrophobic silica/water interface studied by sum-frequency vibrational spectroscopy (SFVS)

Prof. LIU, Weitao¹

¹ Physics Department, Fudan University

Corresponding Author: wtliu@fudan.edu.cn

Poster-14 / 113

Breaking the Limitation of Polarization Multiplexing in Optical Metasurfaces with Engineered Noise

Author: Prof. PENG, Ruwen¹

Co-Authors: Dr. XIONG, Bo¹; Ms. LIU, Yu¹; Mr. XU, Yihao²; Prof. LIU, Yongmin³; Prof. WANG, Mu¹

¹ Nanjing University

² Northeastern University, USA

³ Northeastern University

Corresponding Author: rwpeng@nju.edu.cn

Poster-14 / 114

Determination of $^{58}\text{Co}(\gamma, \text{xp})$ cross section via the surrogate ratio method

Author: Ms. AKBAR, Shaima¹

Co-Authors: Prof. M M, Musthafa¹; Mr. C V, Midhun¹; Dr. S V, Suryanarayana²; Dr. PANDEY, Jyoti³

¹ Department of Physics, University of Calicut

² Nuclear Physics Division, BARC

³ Department of Physics, G B Pant University of Agriculture and Technology

Corresponding Author: shaimaakbar333@gmail.com

Poster-12 / 115

Study of women representation in the field of relativistic heavy-ion collisions

Dr. SHARMA, Natasha¹

¹ Indian Institute of Science Education and Research (IISER) Berhampur

Corresponding Author: nsharma@iiserbpr.ac.in

Poster-14 / 116

The dark matter direct search at JUSL : the present status

Dr. DAS, Mala¹

¹ Saha Institute of Nuclear Physics

Corresponding Author: maladassinp@gmail.com

Poster-11 / 117

EU policy initiatives promoting women in science: Lithuanian Women in Physics in 2023

Author: Dr. SATKOVSKIENE, Dalia¹

Co-Authors: Dr. PRALGAUSKAITĖ, Sandra¹; Dr. RUTKŪNIENĖ, Živilė²; Dr. PALAIMIENĖ, Edita¹; Dr. LENGVINAITĖ, Dovilė¹

¹ Faculty of Physics, Vilnius University

² Department of Mathematics and Natural Science, Kaunas University of Technology

Corresponding Author: dalia.satkovskiene@ff.vu.lt

Poster-13 / 118

Synthesis and characterization of Ag₃PO₄ /SnS₂ composite for hydrogen evolution reaction

Author: Ms. S, DIVYADHARSHINI ¹

Co-Author: Mr. M, Kovendhan ¹

¹ SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Corresponding Author: sdivyadharshini2223@gmail.com

Poster-12 / 119

Institutional Racism and Sexism in Science

Dr. BROWN, Nathaniel ¹

¹ Penn State University

Corresponding Author: npb2@psu.edu

Poster-12 / 120

Towards achieving Gender Equity: Activities of the Gender Group in Condensed Matter Physics

Author: Prof. VARMA, shikha ¹

Co-Authors: Dr. BHATTACHARJEE, Kuntala ²; Dr. KALITA, Bulumoni ³; Prof. JAISWAL-NAGAR, DEEPSHIKHA, Deepshikha ⁴; Prof. RATH, Shyama ⁵; DAS, Sourin ⁶; Prof. GUPTE, Neelima ⁷; SAHA-DASGUPTA, Tanusri ⁸; Dr. KULKARNI, Sulabha ⁹

¹ Institute of Physics

² Indian Institute of Space Science and Technology (IIST)

³ Assistant Professor

⁴ IISER Thiruvananthapuram

⁵ University of Delhi

⁶ IISER Kolkata

⁷ Indian Institute of Technology Madras

⁸ S.N.Bose National Centre for Basic Sciences

⁹ Centre for Materials for Electronic Technology

Corresponding Author: shikha@iopb.res.in

Poster-14 / 121

Development of an External Cavity Diode Laser (ECDL) to use as an injection seeding for OPOs

Author: Ms. P S, Ardra¹

Co-Authors: Mr. KUMAR, Avinash¹; Mr. KUMAR SINGH, Saurabh²; Dr. R. SHIRHATTI, Pranav³

¹ Research Scholar

² Research scholar

³ Reader F

Corresponding Author: ardraps@tifrh.res.in

Poster-12 / 122

Women in Physics: Argentina 2023

Authors: Dr. MONTANARI, Claudia¹; Dr. ESTRADA, Laura²; Mr. CICCHINI, Tomás³; Dr. LAGUNA, Fabiana⁴; Dr. VICTORIA, Ferreyra⁵; Dr. FRECHERO, Marisa⁶

Co-Authors: Ms. SUÁREZ, Daniela Lioren⁷; Dr. MAGNONI, Agustina⁸; Dr. ÁLVAREZ ZUZEK, Lucila⁹; Dr. BRUNO, Luciana¹⁰; CORMICK, Cecilia¹¹; Ms. GIOVENALE, Natalia¹²

¹ Instituto de Astronomía y Física del Espacio, CONICET and Universidad de Buenos Aires, Buenos Aires, Argentina

² Instituto de Física de Buenos Aires, CONICET and Universidad de Buenos Aires, Buenos Aires, Argentina

³ Instituto de Cálculo, CONICET and Universidad de Buenos Aires, Buenos Aires, Argentina

⁴ Centro Atómico Bariloche, CONICET – CNEA, Río Negro, Argentina.

⁵ Universidad Nacional de La Pampa, La Pampa, Argentina

⁶ Dpto. De Química, Universidad Nacional del Sur – INQUISUR, Buenos Aires, Argentina

⁷ Universidad Nacional de La Plata, La Plata, Buenos Aires, Argentina

⁸ Unidad de Investigación y Desarrollo Estratégico para la Defensa, CONICET, CABA, Argentina.

⁹ Fondazione Bruno Kessler, Italia

¹⁰ Instituto de Cálculo, CONICET and Universidad de Buenos Aires, Buenos Aires, Argentina.

¹¹ IFEG, CONICET and Universidad Nacional Córdoba, Córdoba, Argentina

¹² IFEG, CONICET- Universidad Nacional Córdoba, Córdoba, Argentina.

Corresponding Author: claudia.montanari@gmail.com

Poster-12 / 123

Science Academies of India: Contributions towards Women in Science

Author: Dr. SHARMA, Shobhana¹

Co-Author: Ms. DEORE, Dhanashree²

¹ Institute of Chemical Technology, Mumbai 400019 India

² Pune University, Pune 411007 India

Corresponding Author: shobhana@gmail.com

Poster-13 / 124

Understanding Huygens principle & verifying laws of light propagation: a mathematical approach

Author: Dr. CHARI, Deepa ¹

Co-Authors: Ms. PARAKKAL, Raziya ²; Mr. PARMAR, Amish ³

¹ Homi Bhabha Centre for Science Education, TIFR

² Kendriya Vidyalaya, Kendriya Vidyalaya Sangathan, Mumbai, India.

³ Homi Bhabha Centre for Science Education

Corresponding Author: deepa@hbcse.tifr.res.in

Poster-12 / 125

The GATI Pilot: Influencing Policies, Organizational Culture and Strategic Vision

Author: Dr. JOLLY, Pratibha ¹

Co-Authors: Ms. NUPUR, Priyanka ²; Ms. RAWAL, Roja ²

¹ Miranda House, University of Delhi (till 2019)

² National Assessment and Accreditation Council

Corresponding Author: pratibha.jolly@gmail.com

Poster-11 / 126

Women in Physics: State of the Nation (France)

Author: LIDGI-GUIGUI, Nathalie ¹

Co-Authors: Dr. MORIN, Sandrine ²; Prof. PIERRON-BOHNES, Véronique ³; Prof. CHAMPENOIS, Caroline ⁴; Prof. CHANDESRIS, Dominique ⁵

¹ University Sorbonne Paris Nord / SFP

² Université de Rouen

³ Institut de physique et chimie des matériaux de Strasbourg

⁴ PIIM, CNRS, Aix-Marseille Université

⁵ Société Française de Physique

Corresponding Author: nathalie.lidgi-guigui@univ-paris13.fr

Poster-11 / 127

Impacts of the pandemic and governmental change on Brazil's Physics

Author: Dr. PARISOTO, MARA¹

Co-Authors: Prof. FONTES DOS SANTOS, Antonio Carlos²; Dr. BAILAS, Gabriela Padilha³; Dr. MENDES, Janaína Dutra Silvestre⁴; Dr. CAL., Taneska Santana⁵

¹ UFPR *Palotina*

² UFRJ

³ High Energy Accelerator Research Organization, Tsukuba, Japan.

⁴ Nuclear Medicine Department

⁵ Universidade Federal da Bahia

Corresponding Author: mara.parisoto@ufpr.br

Poster-13 / 128

Choosing Between Physics and Engineering, by Gender: A Canadian Study of Socio-Cultural Factors

Author: Dr. BARKANOVA, Svetlana¹

Co-Authors: Dr. MOLONEY, Cecilia²; Dr. ROSALES, Janna²; Mr. SANDY, Amit²

¹ Memorial University of Newfoundland, Grenfell Campus

² Memorial University of Newfoundland

Corresponding Author: sbarkanova@grenfell.mun.ca

Poster-11 / 129

Striving for Equity in Canadian Physics

Author: Dr. BARKANOVA, Svetlana¹

Co-Authors: Prof. GRINYER, Gwen²; Dr. MAMMEI, Juliette³; Dr. SEALFON, Carolyn⁴; SMOLINA, Anastasia⁵

¹ Memorial University of Newfoundland, Grenfell Campus

² University of Regina

³ University of Manitoba

⁴ Ronin Institute

⁵ University of Toronto

Corresponding Author: sbarkanova@grenfell.mun.ca

Poster-14 / 130

Stochastic Dynamics of a Feshbach-coupled Atomic-Molecular Bose-Einstein Condensate

Author: Dr. DASGUPTA, Raka¹

Co-Author: Mr. MUKHERJEE, Avinaba¹

¹ University of Calcutta

Corresponding Author: rdphy@caluniv.ac.in

Poster-12 / 131

A study of vertical exclusion in a profession with a higher percentage of women in the labor market.

Author: Dr. PARISOTO, MARA¹

Co-Authors: Ms. SANTOS, Juliana da Silva²; Ms. VILLWOCK, Lara Eduarda²; Mrs. SILVA, Lillyan Kelly Sales da²; Mrs. VALERÃO, Manuela²

¹ UFPR *Palotina*

² UFPR

Corresponding Author: mara.parisoto@ufpr.br

Poster-13 / 134

Rocket Girls

Author: Dr. PARISOTO, MARA¹

Co-Authors: Mrs. VILLWOCK, Lara Eduarda²; Mrs. VALERÃO, Manuela²; Mrs. SANTOS, Juliana da Silva²; Mrs. SILVA, Lillyan Kelly Sales²

¹ UFPR *Palotina*

² UFPR

Corresponding Author: mara.parisoto@ufpr.br

Poster-11 / 135

Postwar Consequences on Tigray Female Physicist on Northern Ethiopia

TADESSE, Meti Desalegn¹; Dr. TEKLU, Tsega²

¹ University

² Mekelle University

Corresponding Author: meti.desalegn7@gmail.com

Poster-11 / 137

Women in Physics in the Philippine Academe

Author: Prof. ROXAS-VILLANUEVA, Ranzivelle Marianne¹

Co-Authors: Dr. PINOL, Chrysline Margus²; Dr. COLAMBO, Ivy³

¹ University of the Philippines Los Baños

² University of the Philippines Los Banos

³ Institute of Mathematical Sciences and Physics

Corresponding Author: rlroxasvillanueva@up.edu.ph

Poster-13 / 138

Efforts for gender equality in Chinese higher education institutions

Prof. XU, Limei¹

¹ *Peking University*

Corresponding Author: limei.xu@pku.edu.cn

Poster-12 / 139

Initiatives and Progress for Women in Physics: A Status Update from Ethiopia

TADESSE, Meti Desalegn¹

¹ *University*

Corresponding Author: meti.desalegn7@gmail.com

Poster-11 / 140

Women in Physics in Zimbabwe: Where are they now?

Authors: Dr. SHONHIWA, Chipo¹; Dr. MATANDIROTYA, Electdom²

Co-Authors: Ms. MOYO, Nomathemba³; Ms. MABOTA, Shamiso⁴; Ms. MUFUTE, Patricia⁵; Dr. DANGA, Helga Tariro¹

¹ *Bindura University of Science Education*

² *University of Zimbabwe*

³ *National University of Science and Technology*

⁴ *Midlands State University*

⁵ *Morgan Zintec College*

Corresponding Author: mabotashamiso@gmail.com

Poster-12 / 143

Strategies to encourage young females to pursue Physics in South Africa: Achievements and Challenges

Dr. SHINGANGE, Katekani¹; Ms. MDHLULI, Joyful²; Dr. MODIBA, Rosinah³; Dr. MHLONGO, Rebecca⁴

¹ *Council for Scientific and Industrial Research*

² *University of the Witwatersrand*

³ *CSIR*

⁴ *Sefako Makgatho Health Sciences University*

Corresponding Author: kshingange@csir.co.za

Poster-11 / 144

In our language, POLAND is a 'she', just like PHYSICS

Author: Prof. DRABIŃSKA, Aneta¹

Co-Authors: Dr. MIKA, Aneta²; Dr. SZCZYGIELSKA-LACIAK, Aneta³; OSADA, Martyna⁴; Mr. PETELCZYC, Krzysztof⁵

¹ Faculty of Physics, University of Warsaw

² College of Education and Therapy The Szczecin Faculty

³ Faculty of Science and Technology, University of Silesia in Katowice, Poland

⁴ Faculty of Physics, University of Warsaw

⁵ Polish Physicsl Society

Corresponding Author: aneta.drabinska@fuw.edu.pl

Poster-12 / 145

“Science for Women: A Technology and Innovation” Portal

Author: Dr. CHAKRABORTY, Subhra¹

Co-Authors: Dr. YADAV, Gitanjali¹; Dr. RANJAN, Aashish¹; Mr. SHARMA, Dhananjay¹; Mr. VENKATASUBRAMANIAN, Rishi¹

¹ National Institute of Plant Genome Research

Corresponding Author: subhrac@hotmail.com

Poster-13 / 146

Beginning and development of the physics in Nicaragua: the role of women in this history

Authors: Dr. MAIRENA MOLINA, Elba Milagros¹; Dr. GARCÍA FLORES, Yasser Alexander¹

Co-Authors: Prof. MARCELA DEL CARMEN MONTES OBREGON, Marcela²; Mrs. ORTEGA, Shelvis³

¹ NICARAGUA

² UNI

³ Nicaragua

Corresponding Author: elba.mairena@unan.edu.ni

Poster-12 / 147

Labhopping: A journey to find Indian Women in Science

Author: Ms. DOGRA, Aashima¹

Co-Author: Ms. JAYARAJ, Nandita¹

¹ thelifeofscience.com

Corresponding Author: aashiema@gmail.com

Poster-11 / 148

Women in physics: Students and faculty members in Turkish higher education

Dr. KÖSEM, ŞULE¹; Dr. ÖZMEN, KÜBRA²; Dr. DİDİŞ KÖRHASAN, NİLÜFER¹

¹ ZONGULDAK BÜLENT ECEVİT UNIVERSITY, TURKEY

² BAŞKENT UNIVERSITY, TURKEY

Corresponding Author: niluferdidis@gmail.com

Poster-14 / 149

Verification of pairwise non-locality trade-off in 3-qubit pure symmetric states using the IBM open access quantum computer ibmq_belem

Author: Mrs. HUMERA, Talat¹

Co-Authors: A R, USHA DEVI²; Prof. SHENOY, Sudha³

¹ Bangalore University

² BANGALORE UNIVERSITY

³ Kuvempu University

Corresponding Author: ushadevi@bub.ernet.in

Poster-12 / 150

Progress of Women Physicists in Egypt Supported by Legislations

Dr. KAHIEL, heba¹

¹ Ain Shams University, Cairo, Egypt

Corresponding Author: hebakahil@gmail.com

Poster-13 / 152

Designing a teaching grade phase contrast microscope on an optical bench

Authors: Ms. VISHWAKARMA, Abha¹; Mr. KASHYAP, R. Vasanth¹

Co-Author: Dr. PRUSTY, Sudakshina²

¹ NISER

² National Institute of Science Education and Research (NISER)

Corresponding Author: sprusty@niser.ac.in

Poster-13 / 154

SPECTRAL EFFECT OF A MONOCHROMATIC LIGHT ON THE PERFORMANCE OF A SILICON SOLAR CELL

Ms. SARE, Ramatou¹

¹ Université Joseph KI-ZERBO

Corresponding Author: sarerama3@gmail.com

Poster-11 / 155

Long-Range Planning for Diversity and Equity in Nuclear Science

Prof. MCCULLOUGH, Laura¹

¹ University of Wisconsin-Stout

Corresponding Author: lauramccphd@gmail.com

156

Workshop on Women's Leadership in Physics

Author: Prof. QAMAR, Anisa¹

Co-Authors: Dr. KURUP, Anitha²; Prof. LILIA, Meza-Montes³

¹ The University of Peshawar

² National Institute of Advanced Studies, Indian

³ Instituto de Física, Benemérita Universidad Autónoma de Puebla

Corresponding Author: anisaqamar@gmail.com

Poster-13 / 158

Exploring the Single Slit Diffraction Experiment

Dr. SEETHARAMAN, Deepa¹

¹ Sri Sathya Sai Institute of Higher Learning

Corresponding Author: deepaseetharaman@sssihl.edu.in

Poster-11 / 160

Gender imbalance in university scientific career in Morocco

Author: MORDANE, Soumia¹

Co-Author: BETTACHY, MINA²

¹ Faculty of Science Ben M'sik- University Hassan-II- Casablanca Morocco

² UH2C

Corresponding Author: mordanesoumia@gmail.com

Poster-12 / 162

SOLAR QUIET (SQ) DAILY CURRENT VARIATIONS CONTRIBUTIONS TO THE EARTH CONDUCTIVITY WITHIN SOME SOUTHERN AFRICAN COUNTRIES

Author: Dr. OKWESILI, Ngozi ¹

Co-Author: Prof. OKEKE, Francisca ¹

¹ *University of Nigeria, Nsukka Nigeria*

Corresponding Author: ngozi.okwesili@unn.edu.ng

Poster-13 / 163

Space charge contributions to the dielectric response and breakdown strength of high-temperature polyetherimide/polyimide blends

Author: JUREČIĆ, Vida ¹

Co-Authors: NOVAK, Nikola ¹; FULANOVIĆ, Lovro ²; BOBNAR, Vid ¹

¹ *Jožef Stefan Institute*

² *Nonmetallic Inorganic Materials, Technical University of Darmstadt*

Corresponding Author: vida.jurecic@ijs.si

Plenary 3: Panel Discussion / 164

The impact of COVID-19 on the scientific ecosystem

Special session on "Publishing" / 165

Master Class: Preparing a contribution for ICWIP Proceedings

Special session on "Publishing" / 166

Physics publishers' perspective of gender equity in the physical sciences

Session on Resolutions / 167

The impact on IUPAP of the Working Group on Women in Physics

Inauguration / 168

Remarks

Inauguration / 169

Remarks

Poster-11 / 170

Toward Gender Equity in Physics: The Changing Scenario in Indian Academia

Author: CHATTERJEE, Suchetana¹

Co-Authors: GOSWAMI, Sribabati²; Prof. NANAL, Vandana³; BHATIA, Tripta⁴; Dr. CHARI, Deepa⁵; Dr. DEVI, Moon Moon⁶; Prof. GHOSHAL, Debasish⁷; Prof. MADHURIMA, V⁸; Prof. MAVANI, Krushna⁹; Dr. PANDEY, PRAGYA¹⁰

¹ Presidency University

² Physical Research Laboratory

³ tifr

⁴ IISER-Mohali

⁵ Homi Bhabha Centre for Science Education, TIFR

⁶ Tezpur University, Assam, India

⁷ Jawaharlal Nehru University

⁸ Central University of Tamil Nadu

⁹ Indian Institute of Technology Indore

¹⁰ PHYSICAL RESEARCH LABORATORY

Corresponding Author: suchetana.astro@presiuniv.ac.in

Poster-11 / 171

Nigeria: Exploring the computational challenges of women in physics

Author: Prof. FUWAPE, Ibiyinka¹

Co-Authors: Mrs. OBAFAYE, Aderonke²; Dr. OGUNJO, Samuel³; Prof. SA'ID, Rabia⁴; Prof. MADU, CHINYERE⁵; Dr. OKWESILI, Ngozi⁶

¹ Michael and Cecilia Ibru University, Agbarha-Otor, Delta State, Nigeria

² United Nations African Regional Centre for Space Science Technology and Education - English, (UN-ARCSSTE-E)

³ Federal University of Technology, Akure, Ondo State, Nigeria

⁴ Bayero University

⁵ FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI, NIGERIA

⁶ University of Nigeria, Nsukka

Corresponding Author: yfuwape@yahoo.com

Poster-12 / 173

Mineralogical Characterization of the Serra Pelada Meteorite by Energy Dispersive X Ray Fluorescence and X Ray Diffractometry

Author: Prof. CERON LOAYZA, María Luisa¹

Co-Authors: Dr. BRAVO CABREJOS, Jorge A.¹; Prof. MONTOYA BURGA, Jenny Aleida¹; Prof. MORI ESCOBAR, Fanny Esmeralda¹;

Prof. TESILLO QUISPE, Mabel Erlinda¹

¹ *Laboratorio de Análisis de Suelo, Facultad de Ciencias Físicas, Universidad Nacional Mayor de San Marcos*

Corresponding Author: mceronl@unmsm.edu.pe

Poster-11 / 174

Woman in physics in Senegal

Author: Dr. DIA, Aichetou¹

Co-Author: Prof. FAYE, Ndeye Arame Boye²

¹ *Université Gaston Berger Saint Louis*

² *University Of Cheikh Anta Diop in Dakar*

Corresponding Author: aichetou_dia@yahoo.fr

Poster-11 / 177

Gender Equality in Physics: numbers and actions in Italy

Author: PIRRONE, Sara¹

Co-Authors: Dr. BADALA, Angela²; Prof. DI CIACCIO, Anna³; Dr. MASULLO, Maria Rosaria⁴

¹ *INFN- Istituto Nazionale di Fisica Nucleare*

² *INFN - Sezione di Catania*

³ *University of Roma Tor Vergata and INFN*

⁴ *National Institute for Nuclear Physics*

Corresponding Author: sara.pirrone@ct.infn.it

Poster-13 / 178

Charge-Transfer Complex Formation in Organic Semiconductor Films: role in Surface Doping

Dr. BABUJI, Adara¹

¹ *Student*

Corresponding Author: aadarab8@gmail.com

Poster-11 / 179

WOMEN IN PHYSICS IN YEMEN

Author: THABET, Fairoz ¹

Co-Author: AL-YUSUFI, Rasha ²

¹ *Physics Department, Faculty of Science Taiz University, Taiz, Republic of Yemen*

² *Physics Department, Faculty of Science Sana'a University, Sana'a, Republic of Yemen*

Corresponding Author: fairoz_sth2008@yahoo.com

Poster-13 / 181

Contribution of women researchers in physics in scientific fields at the Faculty of Sciences of the University Mohammed the first

Author: Prof. MAAROUI, Fatiha ¹

¹ *University Mohammed the First*

Corresponding Author: mazinema@yahoo.fr

Poster-12 / 183

Empowering Women to Excel and Lead in All Sectors for Sustainable and Better Future

Author: Prof. SONAWANE, KAVITA ¹

Co-Authors: Prof. DESHPANDE, ANJALI ²; Prof. JOLLY, LOCHAN ³

¹ *Chair, WIE-AG IEEE Bombay Section Mumbai*

² *Chair- Section Awards Committee, IEEE Bombay Section*

³ *Chair, EAC- IEEE Bombay Section*

Corresponding Author: kavitasonawane@sfit.ac.in

Poster-14 / 184

Fast timing characteristics with CeBr^{151} detectors

Author: Ms. DAS, Sneha ¹

Co-Authors: Dr. BHATTACHARYYA, Sarmishtha ¹; Dr. BHATTACHARYA, Soumik ¹

¹ *Variable Energy Cyclotron Centre*

Corresponding Author: sneha.d@vecc.gov.in

Poster-13 / 185

Simulation of successive Cascades in Fe-Ni-Cr Model Alloy using Molecular Dynamics for studying Defect Microstructure during ion irradiation

Author: Ms. CHAKRABORTY, Soumita¹

Co-Authors: Mr. DUTTA, Argha¹; Dr. DEY, Santu¹; Dr. N., Gayathri¹; Dr. MUKHERJEE, Paramita¹

¹ Variable Energy Cyclotron Centre

Corresponding Author: soumita.c@vecc.gov.in

Poster-11 / 187

Experience with Development Workshop with Gender Perspective for Early Career Scientists and Students

Ms. SANCHEZ LOPEZ, Angie Alejandra¹

¹ UNAH-CURLA

Corresponding Author: angie.sanchez@unah.edu.hn

Poster-11 / 188

Facing gender bias to young women physicists: subtle or explicit?

Authors: Dr. RODRIGUEZ QUERTS, Elizabeth¹; Prof. PEREZ MARTINEZ, Aurora Maria¹

Co-Authors: Ms. CATILLO AYON, Amanda²; Ms. MARTINEZ QUINTERO, Achely²; Ms. MAIBET, Mas Diaz³; Ms. CAMEJO, Daniela²

¹ Instituto de Cibernetica Matematica y Fisica

² Instituto de Cibernetica Matematica y Fisica and Facultad de Fisica Universidad de la Habana

³ Instituto de Cibernetica Matematica y Fisica and Universidad de la Habana

Corresponding Author: aurora@icimaf.cu

Poster-14 / 190

Predicting Solar Wind using Reservoir Computing

Author: Prof. FUWAPE, Ibiyinka¹

Co-Authors: Dr. OGUNJO, Samuel²; Prof. RABIU, Babatunde³; Mrs. OBAFAYE, Aderonke⁴

¹ Michael and Cecilia Ibru University, Ibru Village, Agbarha-Otor, Ughelli North, Delta State

² Department of Physics, Federal University of Technology, P.M.B. 704, Akure, Ondo State, Nigeria

³ United Nations African Regional Centre for Space Science Technology and Education – English (UN-ARCSSTE-E), Obafemi Awolowo University Campus, Ile Ife, Nigeria

⁴ United Nations African Regional Centre for Space Science Technology and Education - English, (UN-ARCSSTE-E)

Corresponding Author: easyronke2@gmail.com

Poster-14 / 191

Intermittency analysis to understand multiparticle production in the heavy- ion collisions

Author: Dr. GUPTA, Ramni ¹

Co-Author: Ms. SHARMA, Sheetal ¹

¹ University of Jammu

Corresponding Author: ramni.gupta@cern.ch

Poster-11 / 197

Women & Girls in Physics, Democratic Republic of Congo.

Mrs. BANZA LING, Elvire ¹

¹ Physics

Corresponding Author: elvire88@yahoo.fr

Poster-13 / 198

Plasmon-Exciton Interactions in Bilayers of Core-Shell Au-SiO₂ Nanoparticles and FAPbI₃ Perovskite Nanocrystals

Author: Ms. SOUZOU, Aliki ¹

Co-Authors: Dr. ATHANASIOU, Modestos ¹; Dr. BODNARCHUK, Maryna ²; Prof. KOVALENKO, Maksym V. ³; Prof. ANDREOU, Chrysafis ⁴; Prof. ITSKOS, Grigoris ¹

¹ Experimental Condensed Matter Physics Laboratory, Department of Physics, University of Cyprus

² Empa – Swiss Federal Laboratories for Materials Science and Technology, Switzerland

³ Institute of Inorganic Chemistry, Department of Chemistry and Applied Biosciences, ETH Zürich

⁴ Nanotechnology Imaging and Detection Lab, Department of Electrical and Computer Engineering, University of Cyprus

Corresponding Author: asouzo01@ucy.ac.cy

Poster-14 / 199

Finite volume effects on the QCD chiral phase transition using NJL model

Author: Ms. SHAIKH, Adiba ¹

Co-Authors: Dr. DATTA, Saumen ²; Dr. MOHAPATRA, Ranjita ³

¹ Indian Institute of Technology Bombay

² DTP, TIFR

³ Rajdhani College, Bhubaneswar - 751003, India

Corresponding Author: adibashaikh9@gmail.com

Poster-14 / 200

Non-Destructive Evaluation of Static Objects using Cosmic-Ray Muons

Author: Prof. MAJUMDAR, Nayana¹

Co-Authors: Mr. DAS, Subhendu¹; Dr. TRIPATHY, Sridhar²; Dr. DATTA, Jaydeep³; Dr. BHATTACHARYA, Purba⁴; Prof.

MUKHOPADHYAY, Supratik¹; Prof. SARKAR, Sandip⁵

¹ *Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, 1/AF, Sector I, Bidhannagar, Kolkata 700064, India, Homi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai 400094, India*

² *University of California, One Shields Ave, Davis, California, 95616, USA*

³ *Center for Frontiers in Nuclear Science, Department of Physics and Astronomy, Stony Brook University, 100 Nicolls Road, Stony Brook, New York, 11794, USA*

⁴ *Department of Physics, School of Basic and Applied Sciences, Adamas University, Adamas Knowledge City, Barasat, Kolkata 700126*

⁵ *Retired Professor, Applied Nuclear Physics Division, Saha Institute of Nuclear Physics, 1/AF, Sector I, Bidhannagar, Kolkata 700064, India, Homi Bhabha National Institute, Training School Complex, Anushaktinagar, Mumbai 400094, India*

Corresponding Author: nayana.majumdar@saha.ac.in

Poster-11 / 202

Women Physicists in Switzerland

Dr. KLAUSER, Christine¹

¹ *Paul Scherrer Institut*

Corresponding Author: christine.klauser@psi.ch

Poster-14 / 203

Finite-Time Behaviour of Vacuum Instability: Electron-Positron Creation in Strong Electric Fields

Mr. SAH, DEEPAK¹

¹ *Homi Bhabha National Institute, India*

Corresponding Author: dsah129@gmail.com

Poster-14 / 204

DETECTION OF ATMOSPHERIC TIDES AT LAKE TANGANYIKA ANALYSIS BY FOURIER

Mrs. BANZA LING, Elvire¹

¹ *Physics*

Corresponding Author: elvire88@yahoo.fr

206

The Netherlands: update on diversity and inclusion

Author: Ms. DE GRAAF, Noortje ¹

Co-Author: BLOM, Saskia ²

¹ *Netherlands' Physical Society*

² *Fontys TN*

Corresponding Author: directeur@nnv.nl

Poster-11 / 207

Paper Title is here: Times new roman 14 pt bold, centred

Dr. BHEESETTE, Satyanarayana ¹

¹ *Tata Institute of Fundamental Research, Mumbai*

Corresponding Author: bsn@tifr.res.in

Poster-14 / 208

Dark matter in Two-singlet extension of Standard Model

Author: Dr. BASAK, Tanushree ¹

Co-Authors: Dr. COLEPPA, Baradhwaj ²; Mr. LOHO, Kousik ²

¹ *M. B. Patel Science College, Anand*

² *Indian Institute of Technology Gandhinagar, Gandhinagar*

Corresponding Author: tanushree.83@gmail.com

Poster-13 / 209

Bulk Heterojunctions of Cesium Lead Halide Nanocrystals with Fullerene Derivatives for Light Harvesting Applications

Ms. CHARALAMBOUS, Eleftheria ¹

¹ *University of Cyprus*

Corresponding Author: echara30@ucy.ac.cy

Poster-12 / 211

Comparative Analysis of the Situation of Female Students in the Physical Sciences at the Universidad Nacional Mayor de San Marcos

Author: CERÓN LOAYZA, María Luisa ¹

Co-Authors: Prof. TESILLO QUISPE, Mabel Erlinda ²; Prof. HANAMPA ROQUE, Hermelinda ³; Ms. QUISPE CRISOLO, Tiffany ⁴; Ms. ORTÍZ ROJAS, Senayda ⁴; Prof. MONTOYA BURGA, Jenny Aleida ²; Prof. MORI ESCOBAR, Fanny Esmeralda ²; Prof. MEJÍA SANTILLÁN, Mirian Esther ²; Mrs. MICHUY SUYO, Regina ⁵; Mrs. RIMACHI GÁLVEZ, Karin ⁶; Dr. SILVA VIDAL DE MILLONES, FEY YAMINA³, Silva Vidal De Millones, Fey Yamina ⁷; Mrs. QUISPE QUISPE, Adita ⁸; Dr. TORRES GUILLEN, Roxana ⁹

¹ Universidad Nacional Mayor de San Marcos

² Faculty of Physical Sciences. Universidad Nacional Mayor de San Marcos

³ Universidad Nacional San Antonio Abad del Cusco. UNSAAC-Cusco

⁴ Undergraduated of Faculty of Physical Sciences. Universidad Nacional Mayor de San Marcos

⁵ Instituto

⁶ Kallpa Cafe

⁷ Instituto Geofísico del Perú

⁸ Master's student policies and management of science, technology and innovation. Peruvian University Cayetano Heredia

⁹ Universidad Nacional de San Agustín de Arequipa-Arequipa

Corresponding Author: mceronl@unmsm.edu.pe

Poster-14 / 212

Development of New-Generation Gaseous Detectors for Nuclear Physics

Author: Dr. BHATTACHARYA, Purba ¹

Co-Authors: Mr. SEN, Arijit ²; Prof. GHOSH, Tilak ²; Prof. MAJUMDAR, Nayana ³; Prof. MUKHOPADHYAY, Supratik ³

¹ Department of Physics, Adamas University

² Physics Group, Variable Energy Cyclotron Centre

³ Applied Nuclear Physics Division, Saha Institute of Nuclear Physics

Corresponding Author: purba1.bhattacharya@adamasuniversity.ac.in

Poster-12 / 213

SOLAR QUIET (SQ) DAILY CURRENT VARIATIONS CONTRIBUTIONS TO THE EARTH CONDUCTIVITY WITHIN SOME SOUTHERN AFRICAN COUNTRIES

Author: Dr. OKWESILI, Ngozi ¹

Co-Author: Prof. OKEKE, Francisca ¹

¹ Department of Physics and Astronomy, University of Nigeria, Nsukka, Enugu State, Nigeria

Corresponding Author: ngozi.okwesili@unn.edu.ng

Poster-11 / 216

Progress of Women Physicists in Egypt Supported by Legislations

Dr. KAHIL, heba¹

¹ *Ain Shams University*

Corresponding Author: hebakahil@gmail.com

Poster-11 / 220

Women in Physics in Israel: An Overview

Author: Prof. NIR, Yosef¹

Co-Authors: Dr. JONA, Meytal²; Mrs. RANEN, Esthi³

¹ *Weizmann Institute*

² *Weizmann Institute of Science*

³ *Weizmann institute*

Corresponding Author: yosef.nir@weizmann.ac.il

Poster-11 / 222

Dummy abstract for testing interfaces and experiences of the authors

Dr. BHEESETTE, Satyanarayana¹

¹ *Tata Institute of Fundamental Research, Mumbai*

Corresponding Author: bsn@tifr.res.in

Poster-11 / 223

From the first women physicists to members of the Russian Academy of Sciences

Author: Prof. KUNDIKOVA, Nataliya¹

Co-Authors: Dr. ERMOLAEVA, Elena²; Dr. ISTOMINA, Natalia³; Dr. KOTOVA, Svetlana⁴; Dr. NEPEINA, Kseniia⁵; Dr. POLIKARPOVA, Nataliya²

¹ *Institute of Electrophysics UB of RAS*

² *Moscow Lomonosov State University*

³ *Russian Academy of Sciences*

⁴ *P.N.Lebedev Physical Institute of the Russian Academy of Sciences, Samara branch*

⁵ *Divisions of the Research Station, Russian Academy of Sciences*

Corresponding Author: kundikovand@susu.ru

Poster-11 / 224

Current status for women in physics Zambia

Author: Ms. NYIRONGO, Racheal¹

Co-Authors: Ms. CHAMA, Tombozi Clemens¹; Mr. SAWILA, Perseverance¹; Mr. MUNKOMBWE, Obedience²

¹ Department of Physics, University of Zambia

² Department of physics, University of Zambia.

Corresponding Author: nyirongoracheal98@gmail.com

Poster-12 / 225

Vigyan Vidushi – a unique initiative for mentoring aspiring young women

Author: Prof. DIGHE, Amol¹

Co-Authors: Prof. MAZUMDAR, Anwesh²; Prof. NANAL, vandana¹

¹ TIFR

² HBCSE-TIFR

Corresponding Author: nanal@tifr.res.in

Poster-12 / 226

Activity of AAPPS-WIP

Author: Prof. NOJIRI, MIHOKO¹

¹ KEK

Corresponding Author: nojiri@post.kek.jp

227

Recent Activities of the Women's Committee of the Korean Physical Society

Author: Prof. YIM, Haein¹

Co-Authors: Prof. JO, Younzung²; Prof. GONG, Su-Hyun³; Prof. SONG, Jeonghyeon⁴; Prof. JUNG, RANJU⁵

¹ Sookmyung Women's University

² Kyungbook National University

³ Korea University

⁴ Konkuk University

⁵ Kwangwoon University

Corresponding Author: haein@sookmyung.ac.kr

228

Analyzing implicit gender bias in Optics and Photonics at the predoctoral stage in Spain

Authors: Ms. DE LAS HERAS, Alba¹; TOMAS, Maria Baralida²

Co-Authors: SANTAMARIA FERNANDEZ, Beatriz³; GOMEZ-VARELA, Ana I.⁴; BENEDI-GARCIA, Clara⁵; DELGADO-PINAR, Martina⁶; GONZALEZ-FERNANDEZ, Veronica⁷; PEREZ-HERRERA, Rosa Ana⁸

¹ Universidad de Salamanca

² University of Alicante

³ Universidad Politecnica de Madrid

⁴ Universidad de Santiago de Compostela

⁵ Indizen Optical Technologies

⁶ Universitat de Valencia

⁷ Universidad Complutense de Madrid

⁸ Universidad Publica de Navarra

Corresponding Author: albadelasheras@usal.es

231

Women in Physics Participation in Leadership and Decision-Making Positions in Uganda

Prof. BIIRA, Saphina¹; Dr. AKOBA, Rashidah¹

¹ Busitema University

Corresponding Author: bsaphina@yahoo.co.uk

232

Overview of the activities of the IUPAP group for women in physics in Serbia in the last three years

Author: Dr. STOJANOVIĆ, Maja¹

Co-Authors: Dr. POPOVIĆ-BOŽIĆ, Mirjana²; Dr. MARKOVIĆ-TOPALOVIĆ, Tatjana³; Dr. KNEŽEVIĆ, Dragica⁴; Dr. JANIĆEVIĆ, Sanja⁴

¹ Department of Physics, Faculty of Sciences University of Novi Sad

² Institute of Physics, University of Belgrade

³ High Medical School in Šabac

⁴ Department of Physics, Faculty of Science, University of Kragujevac

Corresponding Author: maja.stojanovic@df.uns.ac.rs

234

Women in physics in Slovenia

Author: Prof. REMSKAR, Maja¹

Co-Authors: Mrs. JUREČIČ, Vida¹; Dr. TKALEC, Uroš²; Dr. ŠETINA, Barbara³; Dr. CONRADI, Marjetka³

¹ *Jozef Stefan Institute*

² *Institute of Biophysics, Faculty of Medicine, University of Ljubljana*

³ *Institute of Metals and Technology*

Corresponding Author: maja.remskar@ijs.si

235

TBA

237

Activities of the Working Group for Gender Equity (WGGE) of the Astronomical Society of India (ASI)

Dr. BANERJEE, Arunima¹

¹ *IISER Tirupati*

Corresponding Author: arunima.iisert@gmail.com

238

Networks and collaborations that increase Mexican women's participation in physics.

Prof. ROMERO-SALAZAR, Lorena¹

¹ *College of Sciences, Autonomous University of the State of Mexico, MEXICO*

Corresponding Author: lormexico@gmail.com

Session on Resolutions / 239

Discussion on resolutions