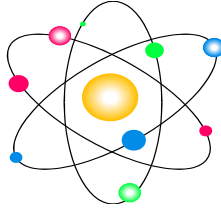


Programme

12th Nuclear and Particle Physics Conference



NUPPAC' 22

**15-18 May 2022
Sharm el-Sheikh, Egypt**

Programme of the

**12th Nuclear and Particle
Physics Conference
15-18 May 2022
Sharm el-Sheikh, Egypt**

NUPPAC' 22

Organized by

**Egyptian Nuclear Physics Association (ENPA)
Cairo, Egypt**

Conference Chairperson
Prof.Dr. M.N.H. Comsan

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Executive Committee

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NUPPAC' 22

Conference Programme

Sunday, 15 May 2022

- 7:00** **Gathering**
EAEA site, 3 Ahmed El-Zomor St., El-Zohour District, Nasr City, Cairo
- 7:00 – 7:30** Registration – Cairo
- 7:30** **Departure**
- 15:30-18:00** **Registration Desk**
- 15:30–16:30** **Lunch**
- 16:30-17:30** **Sharm Registration**
Hotel accommodation
- 17:30-17:45** **Session OS: Opening Ceremony**
Chairperson: M.N.H. Comsan
Conference Opening
- 21:00-23:00** **Free Evening**

Monday, 16 May 2022

- 9:30 –17:30** **Registration Desk**
- 9:30 - 11:00** **Session Oral-1** [3/5/28]
Chairperson: E.V. Zemlyanaya
- 1 About the energy source - The Sun: **Slavik Avagyan** [3]
 - 2 Synthesis of elements from the Big Bang to the current epoch: **M.N.H. Comsan** [5]
 - 3 Flux and power distribution analysis for HTR-10 reactor core loaded with uranium oxide: **Mohamed A. Alzamly**, Moustafa Aziz, Alya A. Badawi, Hanaa Abou Gabal and Abdel Raouf A. Gadallah [28]
- 11:00 - 12:30** **Session PKL-1: Plenary and Keynote**
[16/39]
Chairperson: M.N.H. Comsan
- 1 New Thoughts, Suggestions, and Results about the Mysterious World of Elementary Particles, Dark Matter, and Dark Energy: **Thomas J. Buckholtz** [16]
 - 2 Discrete Relativity: **Frederic Lassiaille** [39]
- 13:00 - 14:00** **Lunch / Conference Photo**
- 14:30 - 16:00** **Session Oral-2:** [8/13/17]
Chairperson: Medhat M. Abdelaal Soliman
- 1 Fast neutron dose determination and charged particle identification by NTDs: **E.H. Ghanim**, S.M. Othman, A. Hussein, H. El-Samman and A. El-Sersy [8]

- 2 Direct measurement of the low energy resonances in $^{22}\text{Ne}(\alpha,\gamma)^{26}\text{Mg}$ reaction: **S. Shahina** [13]
- 3 Spin Physics Detector at NICA: **Reham El-Kholy** (for SPD Collaboration) [17]

16:00 - 17:30 Session Oral-3 [1/35/41]

Chairperson: M.A.M. Gomaa

- 1 Determination of atmospheric boundary layer heights by radiosonde data: **Medhat M. Abdelaal Soliman** [1]
- 2 Theoretical Study of Various Fluids on the Transient Performance of a Two-Phase Closed Thermosyphon (TPCT): Loula A. Shouman, Mohamed. Abd El-Aziz, and **Hesham ELkhatib** [35]
- 3 Microscopic analysis of the Pion-Nucleus scattering in the energy range 130-290 MeV: V.K. Lukyanov, **E.V. Zemlyanaya**, K.V. Lukyanov, and I. Abdul-Magead [41]

16:00 - 17:00 Session PS [14/34]

Chairperson: E.H. Ghanim

- 1 Analytical study of architectural design for Nuclear Power Plants: **Mohamed Abd El-Monem Zaki Farahat** [14]
- 2 Nuclear Security Enhancement for a Typical Nuclear Fuel Fabrication Facility with Enriched Uranium: **Hade Elsayed** [34]

21:00 – 23:00 Cultural Evening*

*) At extra charges, please contact conference secretary.

Tuesday, 17 May 2022

9:30 –15:30 Registration Desk

9:30 - 11:00 Session Oral-4 [37/38/40]

Chairperson: Slavik Avagyan

- 1- Uranium enrichment verification using thermal/fast fission yield ratio signature: **M. Tohamy** [37]
- 2- Uncertainties calculus in NAA analysis - improving the method precision: **Adrian Florinel Bucsa** [38]
- 3- Production and study of neutron rich heavy nuclei, GALS setup: **S. Zemlyanoy**, K. Avvakumov, B. Zuzaan, Yu. Kudryavtsev, V. Fedosseev, and R. Bark [40]

11:00 - 12:30 Session PKL-2: Plenary and Keynote [7/32]

Chairperson: Frederic Lassiaille

- 1- Spot light on Egyptian regulations dealing with dangerous materials emitting ionizing radiation: **M.A.M. Gomaa** [7]
- 2- Double-beta decay and Lorentz violation: **Sabin Stoica** [32]

13:00 -14:00 Lunch

14:30 -15:30 Session RT: Round Table Discussion

Chairperson: M.N.H. Comsan

“Enhancing Nuclear Science and Technology in Egypt”

15:30 -18:30 Life Style and Attractions Sharm*

21:00-23:00 Free Evening Sharm

Wednesday, 18 May 2022

10:00 - 11:30 Registration Desk

10:00 - 11:15 Session CS

Chairperson: M.N.H. Comsan

Conference Conclusions and Recommendations

Conference Closing

12:00 - 12:30 Departure to Cairo

NUPPAC' 22

Conference Timetable

Time	Sunday 15 May	Time	Monday 16 May	Tuesday 17 May	Wednesday 18 May
7:00	EAEA Site, Nasr City	9:30- 11:00	Oral-1	Oral-4	CS
7:00- 7:30	Gathering	11:00- 12:30	RKL-1	RKL-2	Departure To Cairo
7:30	Departure To Sharm	13:00- 14:00	Lunch	Lunch	
15:30	Arrival Sharm	14:30- 16:00	Oral-2	RT	
15:30- 17:30	Lunch Hotel Accom	16:00- 17:30	Oral-3	Free	Midway Rest
17:30- 17:45	OS	16:00- 17:00	Poster	Afternoon	Arrival Cairo
21:00- 23:00	Free Evening	21:00- 23:00	Cultural Evening	Sharm	

Programme Abbreviations

OS	Opening Session	PS	Poster Session
PKL	Plenary/Keynote Talks	RT	Round Table
Oral	Oral Session	CS	Closing Session

برنامج

المؤتمر الثاني عشر للفيزياء النووية والجسيمية
١٥ - ١٨ مايو ٢٠٢٢
شرم الشيخ - مصر

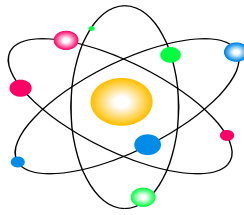
نوباك - ٢٢

تنظيمه

الجمعية المصرية للفيزياء النووية
ENPA

برنامج

المؤتمر الثاني عشر للفيزياء النوية والجسيمية



نوباك - ٢٢

١٥-١٨ مايو ٢٠٢٢

شرم الشيخ - مصر