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# Abdel-Nasser Saber Abdel-Fattah Soliman

Date of Birth: **Sep., 15, 1975**

Nationality: **Egyptian**

Marital Status: **Married**

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## Education

### ❖ **Ph.D. in Engineering Physics, 2017**

- Engineering Mathematics and Physics Department, Faculty of Engineering Shoubra, Benha University.
- **Topic:** "Fragmentation Characteristics of 3.7A GeV  $^{16}\text{O}$  Interacting with Emulsion Nuclei"
- **Supervisors:** Prof. Abdalla Abdel-Salam, Prof. Mohamed El-Sayed S El-Nagdy, Prof. Badawy Mohamed Badawy, Ass. Prof Ahmed Abdalla

### ❖ **M.Sc. in Engineering Physics, 2012**

- Engineering Mathematics and Physics Department, Faculty of Engineering Shoubra, Benha University, Egypt.
- **Topic:** "Nuclear Multi fragmentation and Particle Production Interactions of Heavy Ions in the Emulsion nuclei"
- **Supervisors:** Prof. Abdalla Abdel-Salam, Prof. Mohamed El-Sayed El-Nagdy, Ass. Prof Ahmed Abdalla

### ❖ **B.Sc. in Electrical Power and Electrical Machines, 2005**

- Electrical Engineering Department, Faculty of Engineering at Shoubra, Benha University, Egypt (Very good with honor)

## Research Areas

Science topics: Particle Physics - Elementary Particle Physics - Heavy Ion Physics - High Energy Density Physics

## Teaching Courses

- Properties of matter
- Nuclear Physics
- Quantum Mechanics.
- Thermodynamics and Heat Transfer.
- Engineering Optics.
- Fundamentals of Solids & Crystal Structure
- Mechanical Waves and Sound.
- Electrostatics and Electrodynamics.
- Laser and Advanced Optics.
- Magnetic Fields and Electromagnetism.
- Further math.
- Engineering math.

## Technical Skills

Scanning Microscope – measurements of the projectile fragmentation - measurements of multiplicity distributions of grey and black particles emitted from the interactions - measurements of nuclear particle charges using delta ray and gap density technique - the angle measurements of nuclear fragmentations.

## Employment

- **2017 – present:** Assistant Professor, Engineering Mathematics and Physics Department, Faculty of Engineering at Shoubra, Benha University, Egypt.
- **2012 – 2017:** Assistant Lecturer, Engineering Mathematics and Physics Department, Faculty of Engineering at Shoubra, Benha University, Egypt.
- **2006 – 2012:** Demonstrator for engineering physics, Engineering Mathematics and Physics Department, Faculty of Engineering at Shoubra, Benha University, Egypt.

## Publications

1. **A. Saber**, and N. Abdallah “Studies of Fast Protons Produced in the Reactions of  $^{16}\text{O}$  Nuclei incident on Emulsion Nuclei at 3.7A GeV” Chinese Journal of Physics, V81, Pages 1-8, Feb. (2023).  
<https://www.sciencedirect.com/science/article/abs/pii/S0577907322002325?dgcid=author>
2. **A. Saber**, and H. Ali “Investigation of radionuclide levels and estimation for real emanated radon in rock samples collected from Sinai-Egypt” SN applied Sciences, V5, 8 Jan. (2023).
3. A. Abdelsalam, M. S. El-Nagdy, B. M. Badawy and **A. Saber** " System size dependence of final state hadron sources at  $E_{\text{lab}}=3.7\text{A GeV}$  " J. Phys. G: Nucl. Part. Phys. 47, 045103 (21pp), (2020).
4. S. Kamel, E. El-Falaky, and **A. Saber** "Pseudorapidity distributions of fast target protons in  $^{32}\text{S}$ -Em collisions at Dubna energy" Int. J. Mod. Phys. E, Vol. 29 No.1, 2050002 (13 pages), (2020).
5. A. Abdelsalam, M. S. El-Nagdy, A. M. Abdalla and **A. Saber**, " Journal of Modern Trends in Physics Research "Angular Distribution and Transverse Momenta of Projectile Fragments of Oxygen Nucleus Collided with Emulsion at 3.7A GeV" mtp/(19)58-61(2019).
6. M. S. El-Nagdy, A. Abdelsalam, B. M. Badawy, P. I. Zarubin, A. M. Abdalla, M. Nabil Yasin, **A. Saber**, M. M. Mohamed and M.M. Ahmed,"Channels of projectile fragmentation of  $^{16}\text{O}$  nucleus in nuclear emulsion" J. Phys. Commun.,2, 035010, (2018).
7. M. S. El-Nagdy, A. Abdelsalam, B. M. Badawy, P. I.Zarubin, A. M. Abdalla and **A. Saber**, " Features on Very Peripheral Collisions of  $^{16}\text{O}$ -Em at 3.7A GeV" CHIN. PHYS. LETT., Vol. 35, No.3 - 032501(2018).

8. A. Abdelsalam, M. S. El-Nagdy , A. M. Abdalla and **A. Saber**, "Target productions in forward and backward hemispheres in the interactions of  $^{28}\text{Si-EM}$  at 14.6A GeV" Int. J. Mod. Phys. E 24, 1550084 (2015).
9. A. Abdelsalam, M. S. El-Nagdy, B. M. Badawy, W. Osman, M. M. Mohammad, **A. Saber**, and M. M. Ahmed, WSP World Scientific Publishing International Conference Proc. of the 6th International Conference on Modern Trends in Phys. Research (MTPR-016), Vol. 9916, (2016)
10. M. S. El-Nagdy, A. Abdelsalam, B. M. Badawy, P. I. Zarubin, A. M. Abdalla, M. N. Yasien, **A. Saber**, M. M. Mohammed and M. M. Ahmed, WSP World Scientific Publishing International Conference Proc. of the 6th International Conference on Modern Trends in Phys. Research (MTPR-016), Vol. 9916, (2016).
11. A. Abdelsalam, M. S. El-Nagdy, A. M. Abdalla, **A. Saber**, " Angular Distributions of Target Fragments Emitted in 14.6 A GeV Silicon-Emulsion Interactions" WSP World Scientific Publishing International Conference Proc. of the 6th International Conference on Modern Trends in Phys. Research (MTPR-016), Vol. 9916, (2016).