Curriculum Vitae (CV)

Full Name

Salwa Mohamed Abdelmohsen Mohamed Yousef

Personal Information:

Academic Rank: Lecturer of Physics

Department: Basic Science

Specialization: High Energy Physics

Position: Lecturer

Google Scholar: ----------

Research Gate: ----------

ORCID Record: ----------

Scopus ID: ----------

Email Salwa.abdelmohsen@hti.edu.eg

Mobile/WhatsApp: +20/ 01003126056

Education:

Degree	Discipline	Institution	Year
Ph.D.	HIGH ENERGY PHYSICS	FACULTY OF SCIENCE-AIN SHAMS UNIVERSITY	2024
M.Sc.	HIGH ENERGY PHYSICS	FACULTY OF SCIENCE-AIN SHAMS UNIVERSITY	2016
B.Sc.	Electronics- Physics	FACULTY OF SCIENCE-AIN SHAMS UNIVERSITY	2009

Academic Experience:

Institution:

Rank: **Teaching Assistant**

Dates: **2016 - 2024**

Research interests:

- Digital Signal Processing
- Microcontroller
- Artificial Intelligent
- Solar cells
- High Energy Physics
- Thermoluminescence Dosimetry

Publications:

1- Yahia, A., Radi, A. and Youssef, S. (2015) Implementation of High Performance Electronic Circuits for Zero Suppression and Encoding of Digital Signals. *Journal of Signal and Information Processing*, **6**, 238-243 https://www.scirp.org/journal/paperinformation.aspx?paperid=59081

2- Performance of GE1/1 Chambers for the CMS Muon Endcap Upgrade https://arxiv.org/pdf/1903.02186.pdf

3- Operational Experience with the GEM Detector Assembly Lines for the CMS Forward Muon Upgrade https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8469076

4- Layout and assembly technique of the GEM chambers for the upgrade ofthe CMS first muon endcap station
https://reader.elsevier.com/reader/sd/pii/S0168900218316371?token=A2F7CD2738D8F47997BB9D9928DF3C2FE5954A52017A08F3888FDF45B7405B5B8AFE0292EAE4614E2C4E3ACAB9822F5A

5- Design of a constant fraction discriminator for the VFAT3 front-end ASIC of the CMS GEM detector https://iopscience.iop.org/article/10.1088/1748-0221/11/01/C01023/pdf

6- Fiber Bragg Grating (FBG) sensors as flatness and mechanical stretching sensors https://www.sciencedirect.com/science/article/pii/S0168900216000875?via%3Dihub

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- Reduction of high voltage discharge in GEM detectors for the ME0 station of the CMS forward muon system, Salwa Mohamed, Tamer Elkafrawy, Jeremie Merlin,Proceeding of Science, 2023
- Synthesis and characterization of high-sensitivity Dy,Eu co-doped $CaSO_4$ thermoluminescent phosphor using coprecipitation technique, S Mohamed, E Salama, HA Alazab, A Bakry, A Sharma, Y Assran Luminescence, 2024

Professional Registrations:

- Member of Egyptian Network of High Energy Physics (ENHEP)- Academy of Scientific Research and Technology (ASRT) from 2014 till now.
- Collaboration in Compact Muon Solenoid Experiment at CERN from 2014 till now.

Teaching Experience:

Demonstrator at Basics Science Department, Higher Technological Institute 10th of Ramadan City from 2009 - 2016

Teacher Assistant, Basic Science Department, Higher Technological Institute 10th of Ramadan City from 2016 -till now.

Courses taught

- Properties of matter, Heat and Thermodynamics.
- Electricity, Magnetism and Optics.
- Modern physics