

PHYSICS WITHOUT FRONTIERS OUTLOOK

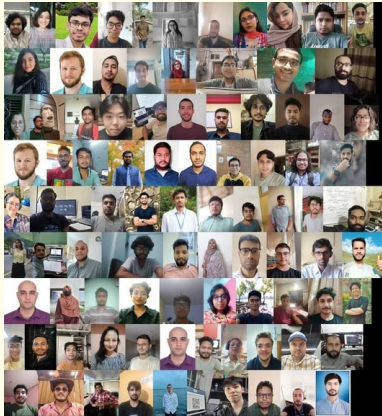
Natasa Stojic, ICTP





Physics Without Frontiers 2024

This year PWF organized 21 projects out of which some with multiple activities!



Physics Without Frontiers was in:

Iraq
Afghanistan
Pakistan
Bhutan
Bangladesh
Nepal
Sri Lanka
Palestine

Tunisia
Cote d'Ivoire
Togo
Burkina Faso
Ghana
Nigeria
Kenya
South Africa

Ecuador
Honduras
Guatemala
Costa Rica
Latin America



PWF Ghana

Mastering the Basics: A Hands-On Workshop in Machine Learning with R/Python II

4-8 November

25 students across
three institutions:
KNUST, University of
Cape Coast and
University of Ghana



“Participating
in the PWF
Ghana
program has
been an
eye-opening
experience.”



PWF Ivory Coast Course on Applications of Group Theory in Physics 2-13 December



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24-hour course.

48 master's students enrolled
in physics, chemistry and
mathematics.

PWF Nigeria

Quantum Science and Technology Roadshow 2024 10-15 November

Project coordinators:

Dr. Obinna Abah, Newcastle
University, United Kingdom.

Mr. Obinna Uzoh, Simon
Fraser University, Canada.

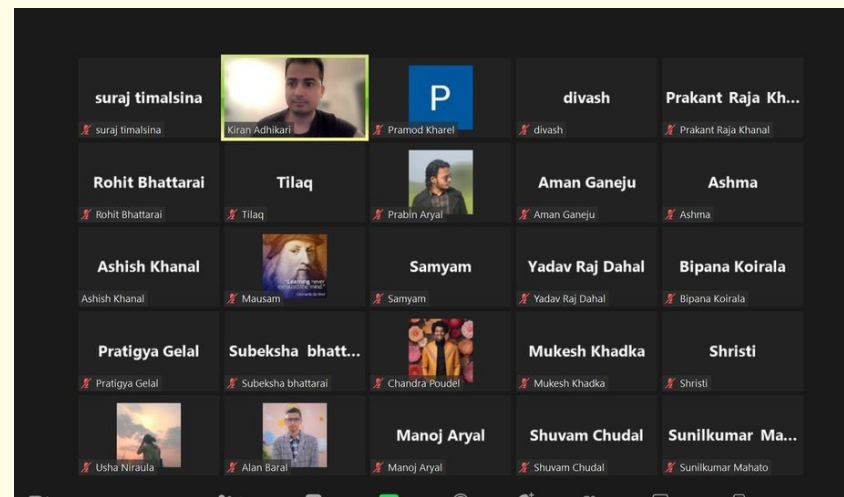
The program consists of a
series of lectures on current
state of quantum research in
the morning and hands-on
sessions using the quantum
simulation software in the
afternoon.



PWF Nepal Holographic Himalaya August-December



Research journal club on
“Quantum Information of Space-time
and Matter” in hybrid form.



PWF Kurdistan Region, Iraq

Atoms for Health: Exploring the Future of Cancer Medicine

24-27 November

- Basic information about cancer is explained.
- The latest techniques for cancer diagnosis and treatment are described.
- The use and applications of AI in cancer management are discussed.



PWF Guatemala-Honduras-Costa Rica

Reading and manipulating the LHCb open data

9-19 December

Students will work with open data files from the LHCb experiment to study the matter antimatter asymmetry of the universe.



PWF Palestine

Online course and talks on selected topics

Dr. Viraf Mehta: Nuclear and particle physics

Prof. John Ellis,
December 16th:
The mysterious Higgs
Boson

Prof. Kyle Cranmer
February 2025:
Machine learning



Aimed at master's level
students at Birzeit
University.

Thank you and join us!

