

Taking High Energy Physics to Higher Altitudes

Physics With Frontiers in Nepal

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2013 ATLAS Experiment's Outreach and Education Group @CERN

Framework

2014 onward...

- University physics students
- High school science teachers and students
- Public
 - General
 - Policymakers

University physics students

- Graduate
- Undergraduate

through

- Lectures
- Hands-on Sessions
- Discussions



Kathmandu University, Dhulikhel (Dec 2014)



Tribhuvan University, Kirtipur (Dec 2016)



Kathmandu University, Dhulikhel (Dec 2018)

High school students and science teachers

- Talks with interactivity elements
- Discussions



Nawa Asha Griha School, Kathmandu (Jan 2015)



Syangja District (Dec 2014)



Kamala School, Sindhuli (Jan 2015)

Public

- General





Supercomputer at KU in Partnership with CERN

- Collection, preservation, and analysis of health and bio-diversity data
- Modeling materials, environmental changes and challenges, biochemical phenomena
- Running simulation/analysis in school of science and engineering
- Parallel programming and data visualization for regular credit courses

The future becomes the present



Bishnu Lamsal
CERN Science
Teacher
Training 2014



Kamlesh
Chaudhari
CERN Science
Teacher Training
2015



CERN Summer Program
2013, PhD candidate at
Göttingen



CERN Summer Program
2015, PhD at Southern
Methodist University

"Apart from learning about particle physics research and making connections, it helped me understand the importance of outreach programs."

Roshan Joshi, 2015 participant, PhD at Ohio State University

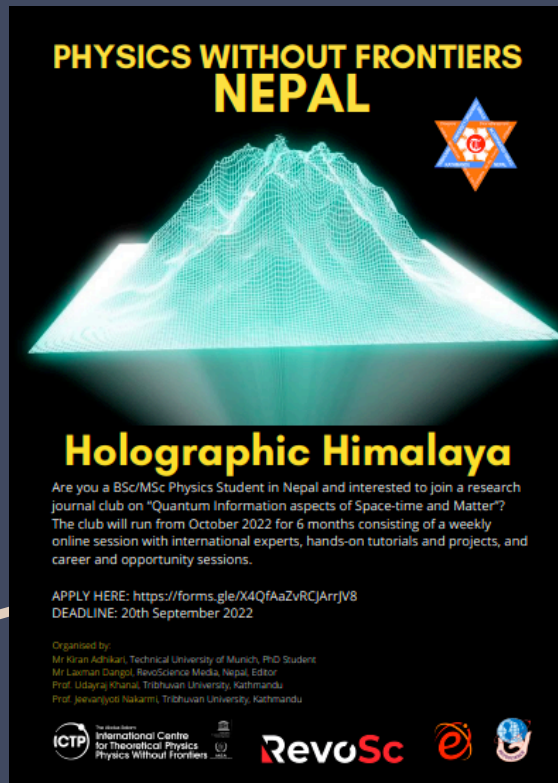


"I love physics and want to make a difference in the world. I am driven to build a career in medical physics, particularly in radiation therapy and imaging for cancer treatment."

Rami Dhungana K.C took part in the 2018 PWF HEP Winter School, Kathmandu, and is currently a CERN summer student.



PWF events



**PHYSICS WITHOUT FRONTIERS
NEPAL**

Holographic Himalaya

Are you a BSc/MSc Physics Student in Nepal and interested to join a research journal club on "Quantum Information aspects of Space-time and Matter"?
The club will run from October 2022 for 6 months consisting of a weekly online session with international experts, hands-on tutorials and projects, and career and opportunity sessions.

APPLY HERE: <https://forms.gle/X4QfAaZvRCjArrjV8>
DEADLINE: 20th September 2022

Organised by:
Mr Kiran Adhikari, Technical University of Munich, PhD Student
Mr Laxman Dangol, RevoScience Media, Nepal, Editor
Prof. Udayraj Kharel, Tribhuvan University, Kathmandu
Prof. Jeevrajyoti Nakarmi, Tribhuvan University, Kathmandu

ICTP The Abdus Salam International Centre for Theoretical Physics Physics Without Frontiers

RevoSc

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PWF Nepal - Science Outreach Program for Girls in Nepal

🕒 Starts 13 Nov 2022 08:00
Ends 18 Nov 2022 18:00
Central European Time

📍 Tribhuvan University, Kathmandu, Nepal

Physics Without Frontiers has partnered with Mr. Vikram Upadhyay, a former scientist at CERN, to organize a 5-day long workshop to promote science education for girls in Nepal. CREASION Nepal, National Innovation Center, and UNESCO Nepal will be the organizing partners for this workshop.

This project will select 20 girls from the Madhesh province of Nepal to attend a 5-day long residential program in Kathmandu where they will get exposed to different research work happening in Nepal as well as academic/career opportunities in Nepal and abroad. They will also get to interact with researchers, including former CERN scientists, and local university students. They will attend lectures and workshops on various topics aimed at the scientific way of looking at the world. Trips to science museums, observatories, and research centers will also be organized.

The motivation behind this project is to encourage girls from marginalized regions to pursue higher studies in Science, and get them informed about the academic and career opportunities in it. The workshop will promote curiosity, logical thinking, and the scientific method of approaching problems. The workshop will also provide the attendees with networking opportunities with universities, research institutes, and inspiring role-models.

The biggest impact of this project will be that the participating girls will discover opportunities in Science and learn how to best prepare themselves to excel in the world of Science.

Thank you!

Questions?