

# THE AFRICAN SCHOOL OF PHYSICS

*Dr. Kétévi Adiklè Assamagan  
Brookhaven National Laboratory (BNL)*



# Outline

- Overview
- Organization
- Scientific Program
- Activities
- Students Profile
- Lecturers
- Funding
- Host country and venue selections
- Mentorship



**The African School of Physics is much more than a school. It is a program of actions with directed ethos toward physics as an engine for development in Africa**



# African School of Fundamental Physics and Applications

- Also known as “The African School of Physics”
- Acronym: ASP
- Logo: as above
- <https://www.africanschoolofphysics.org>
- Organized biennially in different African countries since 2010 by an International Organizing Committee (IOC)
  - [ASP-IOC@CERN.CH](mailto:ASP-IOC@CERN.CH)

**3-week intensive schools  
with activities in parallel**  
**Even when there no term school,  
Continuous Structured Mentorship**

ASP	Host Country	Applicants	Students	Mentorship	Teachers	Pupils	Conference
2010	South Africa	125	65	Continuously, even when there is no term school			
2012	Ghana	138	50				
2014	Senegal	330	70				
2016	Rwanda	429	75	Program formalized in 2016	20	150	
2018	Namibia	523	85		63	> 1200	+60
2020	Morocco	<b>Postponed to 2021 because of COVID-19 but mentorship continues</b>					
2022	South Africa	<b>At the Nelson Mandela University in Port Elizabeth but mentorship is a continuous process</b>					

# ASP Organization

Local Organizing Committee (LOC) –  
in the host country  
Local logistics  
Liaise with Education and Research  
branches of host country government

## Objective:

Increase capacity  
development in  
fundamental and  
applied physics in  
Africa

International Advisory Committee  
(IAC)  
Representatives of funding agencies  
Advise on the program  
Advise of the host country selection

International Organizing Committee  
(IOC)  
Program management  
Fund raising  
Coordination of activities  
Activity reports to Funding agencies

Board of Trustees  
Legal Responsibilities  
Fund raising  
Assess Managements

## Assessment of Impact

Survey of students  
Survey of their Professors  
Follow academic developments

International Lecturers (IL)  
Design the scientific Program  
Help with the student selections  
Mentor and Coach students  
continuously

## Spin-Offs

ASP Mentorship/Coaching Program  
Networking and sharing of information  
Align ASP with educational priorities  
Improve future editions of ASP  
Promote research collaborations  
Promote research consortia

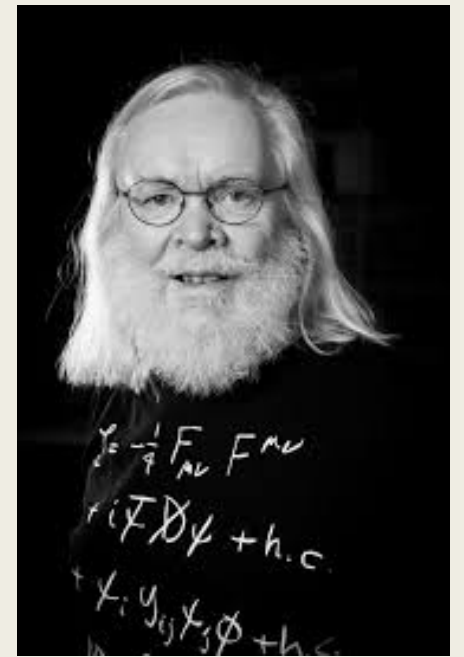
# Current Members of the IOC



Dr. Anne E. Dabrowski  
CERN



Dr. Steve G. Muanza  
CNRS-IN2P3  
France



Prof. John R. Ellis  
CERN and  
University of London



Prof. Bobby Acharya  
ICTP and  
King's College London



Dr. Christine Darve  
ESS



Prof. Fernando Ferroni  
GSSI-INFN



Dr. Kétévi A. Assamagan  
BNL

# Board of Trustees



**Mr. Brian Masara**  
(South African Institute of Physics)



**Prof. Simon Connell**  
(University of Johannesburg)



**Dr. Kétévi A. Assamagan**  
(BNL)

- **ASP is a non-profit international organization registered in South Africa**
- **Headquarter at the South African Institute of Physics**

# ASP Scientific Program

## Fundamental and Applied Physics

*Astrophysics and Cosmology;  
Nuclear and Particle Physics;  
Accelerator, Medical and Radiation Physics;  
High Performance Computing;  
The fourth Industrial Revolution—4IR  
Renewable Energies and Energy Efficiency;  
Material Physics;  
Physics Education & Communication*

*Emphasis tailored to the physics interests of the host country,  
e.g. Namibia: astro & cosmology, material physics*

# ASP Activities

## Student Program

**3-week** intensive school 3<sup>rd</sup> year of University to Ph.D. Mostly African Students. 70-80 Students selected from >500 applications by a committee of lecturers.

## Mentorship / Coaching Program

**At all times**

Work with Academic Advisors  
Connect Students with Researchers  
Place students at Laboratories  
Listen to students and help address their academic needs if possible

## High School Teachers Program

**1-week** intensive workshop to Train High School Teachers for improved physics teaching

## Learners Program

**1-week** learners Outreach  
10-12<sup>th</sup> grade learners  
Encourage learners to develop and maintain interests in Physics and Applications

## ASP Conference

**1-week** International Conference  
Participation of ASP Alumni  
Participation of Research Faculties  
Networking and collaborations

## ASP Forum

**1-day** to discuss capacity development and retention in Africa & the role of ASP

## Online Lectures

To supplement the term schools

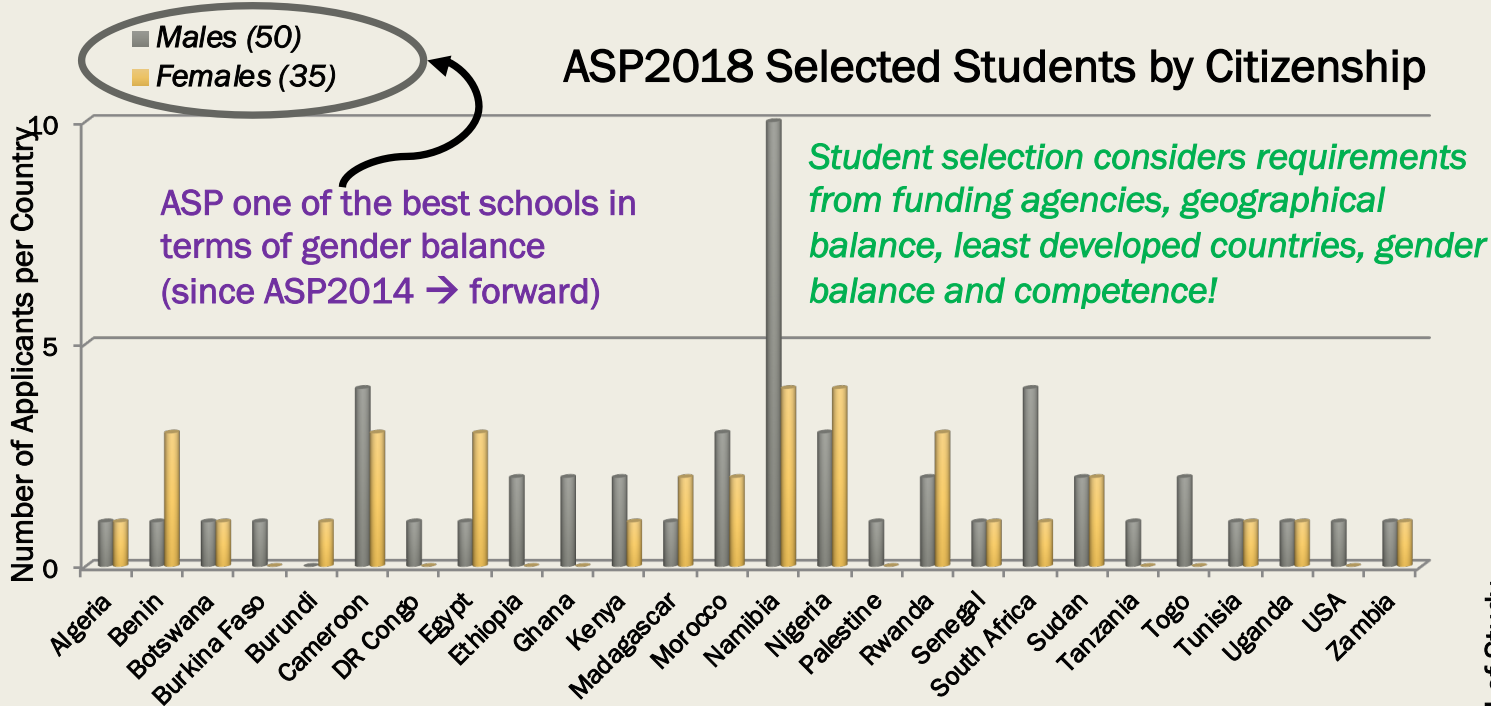


# ASP2016-Students

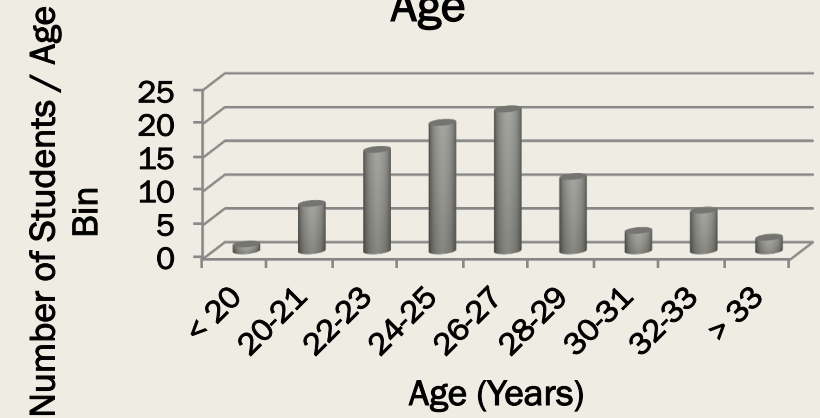
- During a hands-on tutorial in Linux
- Session organized and led by Prof. Pheneas Nkundabakura (University of Rwanda)



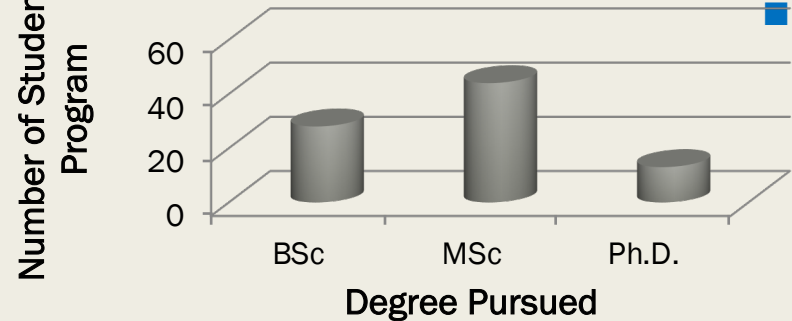
# ASP2018 Students Profile



ASP2018 Selected Students by Age

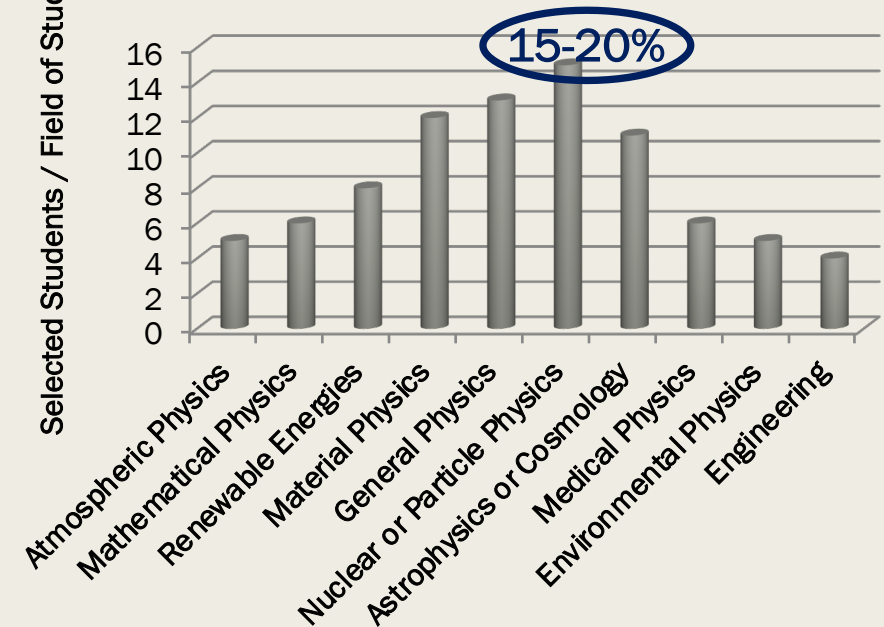


ASP2018 Selected Student Degree Programs



- 523 Applications
- Total Selected: 85
- There were 30 good students on the waiting list
- Selections constrained by budget and logistics
- Replace early declinations

ASP2018 Selected Students by Field of Study



# High School Teachers Program

**Objective:**  
Support teachers growth in the planning and delivery of physics instructions

**One week event:**  
Up to 70 teachers from the host country identified by the Local Organizing Committee and the Ministry of Education



**Teachers program runs in parallel to the students program**

# High School learners Program

## Objective:

Motivate high school pupils to develop and maintain interest in Physics

## One week:

We cover up to 40 high schools around the venue; 1500-2000 high school learners



Learners program runs in parallel to the students program

Program designed such that the lecturers that are not lecturing to students can help with the learners program

# ASP – Conference

## Objective:

Attract ASP alumni;

Attract African research faculties;

Attract international participants not part of ASP;

Foster new research collaborations



One week:

The physics topics taught at the school form the core of the ASP conference.

People may attend only the conference part of ASP. We had 60 extra participants in ASP2018

Peer-reviewed conference proceedings published by the African Review of Physics

<http://aphysrev.ictp.it/index.php/aphysrev/issue/view/35>

# ASP Forum

One day during the school. Objective: Align ASP with the research and education priorities of African countries

UN support (2014-Senegal)  
 Dr. H. TOURE, UN ITU Secretary General.  
 Prof. A. WAGUE and Prof. Oumar Ka



## 2010-South Africa

**Dedicated to Knowledge and Transfer of Technology**  
 Dr. D. ADAMS, chief director:  
 Emerging Research areas & Infrastructure, Human Capital and Knowledge Systems.



## 2012-Ghana

**The African Light Source (AfLS)**  
 Prof. H. WINICK, Prof. Emeritus, SLAC and Prof. S. Connell (University of Johannesburg)



East African Institute for Fundamental Research (EAIFR)  
 Rwandan Ministry of Education

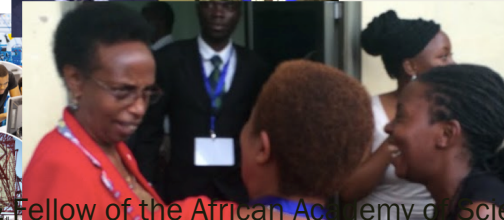
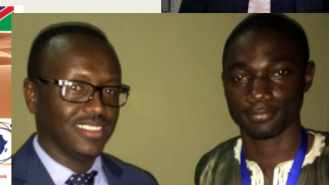


## 2016-Rwanda



## 2018-Namibia

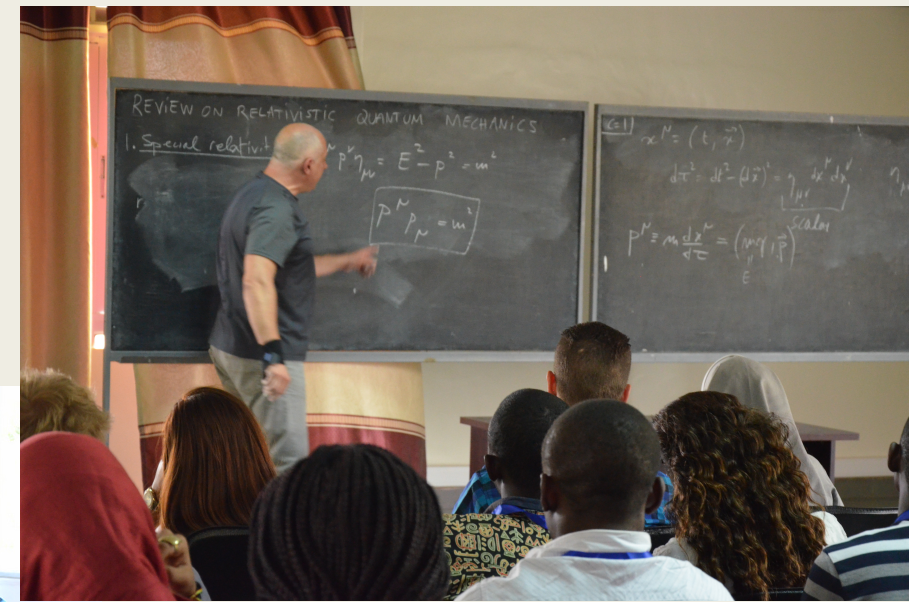
Dr T. TJIVIKUA, Vice-Chancellor, Namibia University of Science and Technology (Namibia)  
 Dr. R. ADAM (SKA, SA)



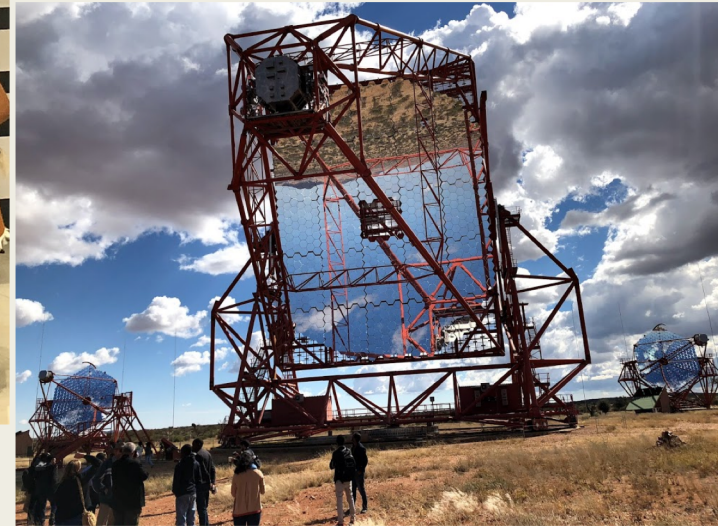
Dr. Kétévi A. Assamagan, BNL & Fellow of the African Academy of Sciences

# Lecturers

- ❖ People-oriented lecturers willing to share their experience with African students
- ❖ Highly motivated and motivating characters
- ❖ Most of ASP lecturers are financially supported by their home institutes
- ❖ Provide fruitful interactions with students
- ❖ Lecturers typically attend the ASP for 3 - 7 days



# Excursions and Festivities





# ASP2020 – Marrakesh Morocco – July 5-25, 2020

**THE SIXTH BIENNIAL AFRICAN SCHOOL OF FUNDAMENTAL PHYSICS AND APPLICATIONS**  
July 5-25, 2020  
Co-organised by Mohammed V & Cadi Ayyad Universities, Morocco  
at Faculty of Science Semlalia, Marrakesh

**THE SECOND BIENNIAL AFRICAN CONFERENCE ON FUNDAMENTAL PHYSICS AND APPLICATIONS**  
July 20-24, 2020

**ASP**  
To increase capacity development in fundamental physics and related applications in Africa. The ASP has evolved to be much more than a school. It is a program of actions with directed ethos toward physics as an engine for development in Africa

**SCIENTIFIC PROGRAM**

► TOPICS

- Astropysics & Cosmology
- Nuclear & Particle Physics
- Accelerator, Radiation & Medical Physics
- Renewable Energies & Energy Efficiency
- Materials Physics
- High Performance Computing
- Physics Education
- Physics Communication
- Quantum Information

► ACTIVITIES

- Workshop for High School Teachers
- Outreach for Secondary Schools
- Physics Lectures and Tutorials for Students
- Forum to Discuss Capacity Development & Retention
- African Conference on Fundamental Physics & Applications

www.africanschoolofphysics.org/asp2020/

- Students Program: July 5-24
- High School Outreach: July 13-17
- Teachers Program: July 20-24
- Conference: July 20-24
  - You may submit an abstract to give a talk at the ASP Conference
- Forum: July 22
  - To engage African policy makers and discuss the role of ASP in capacity development and retention



# ASP Host Country and Venue Selections

Site Visit to Morocco—April 2019

- The host country of the next edition of ASP is selected 2.5 years earlier
  - The selected host country is invited to join the organization of the current edition, to gain experience
  - ASP2020 / 2021: Morocco. In December 2019, South Africa was selected to host ASP2022 at the Nelson Mandela University in Port Elizabeth
  - Approximately one year before the school starts, the IOC makes a one-week site visit to the host country, and together with the LOC, they set the timeline and planning of the event
- African countries are invited to submit proposals to host the next ASP
  - The IOC sets the guideline of what to include in the proposal
  - Deadline: September of the odd years (2019, 2021, ..)
  - The IOC reviews the proposals and make a selections in December of the odd years



# ASP Sponsorships for Participants

“If each African country supports its participants, or contributes 2500 Euros every year to the ASP budget, ASP will be entirely financed by African countries. And \*2500 Euros\* is marginal even for the least developed country”

Budget for each cycle: 200 kEuros

ASP2018 Sponsors in addition to USA DOE Labs (BNL)



African Contributors (2018):

- Namibia
- SA DST/NRF
- IUCEA

Integrated: ~40% ASP2018 budget

ICTP Support major Student participation  
Management of application database  
Arrange student travels

Fund Management  
By the Board of Trustees & South African Institute of Physics

Host Country Support Significant  
In-kind support  
Direct Financial contributions  
Human Resources toward ASP Organization

IOC

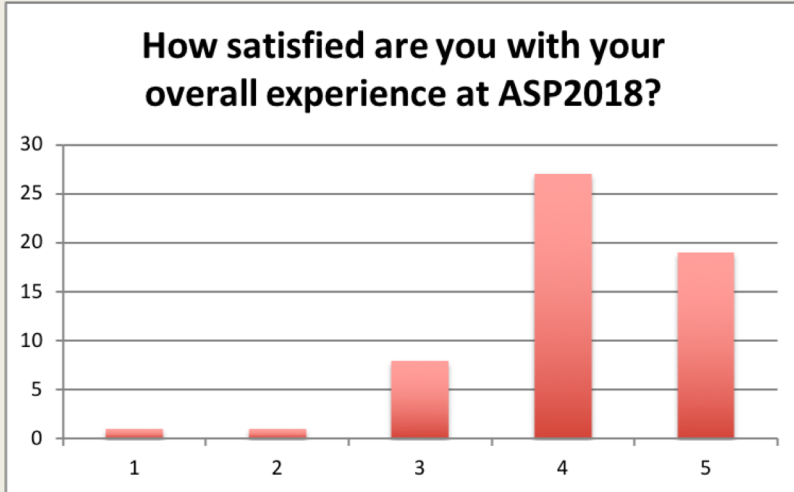
Writes Proposals, Requests for Supports  
Produces Final Reports of Activities  
Seeking permanent financial backing

Lecturers and Organizers Supported by External Sources - Significant  
Support received then used to maximize student participation

# ASP Impact

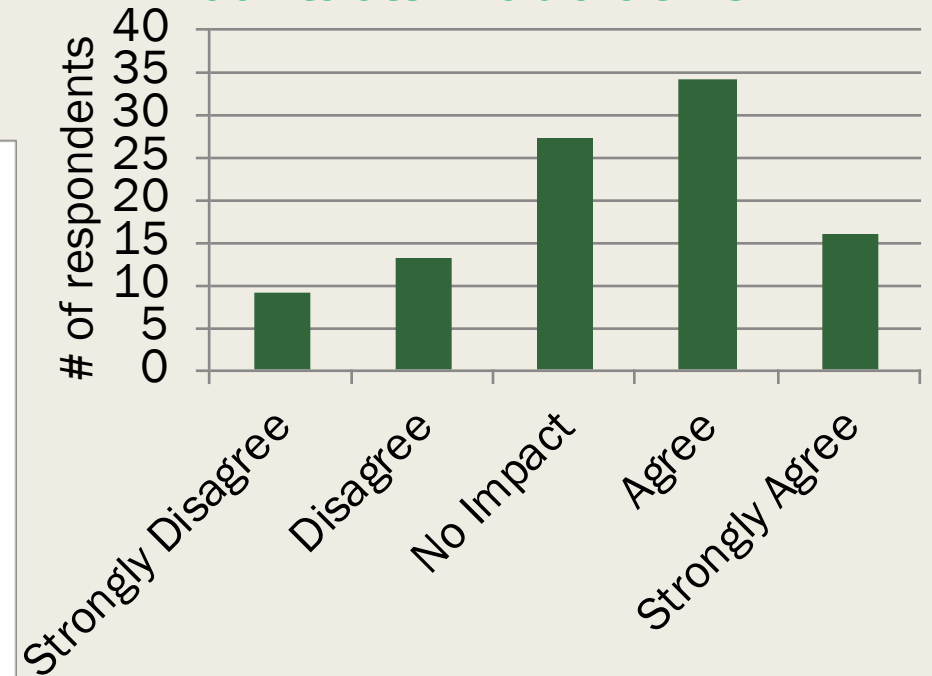
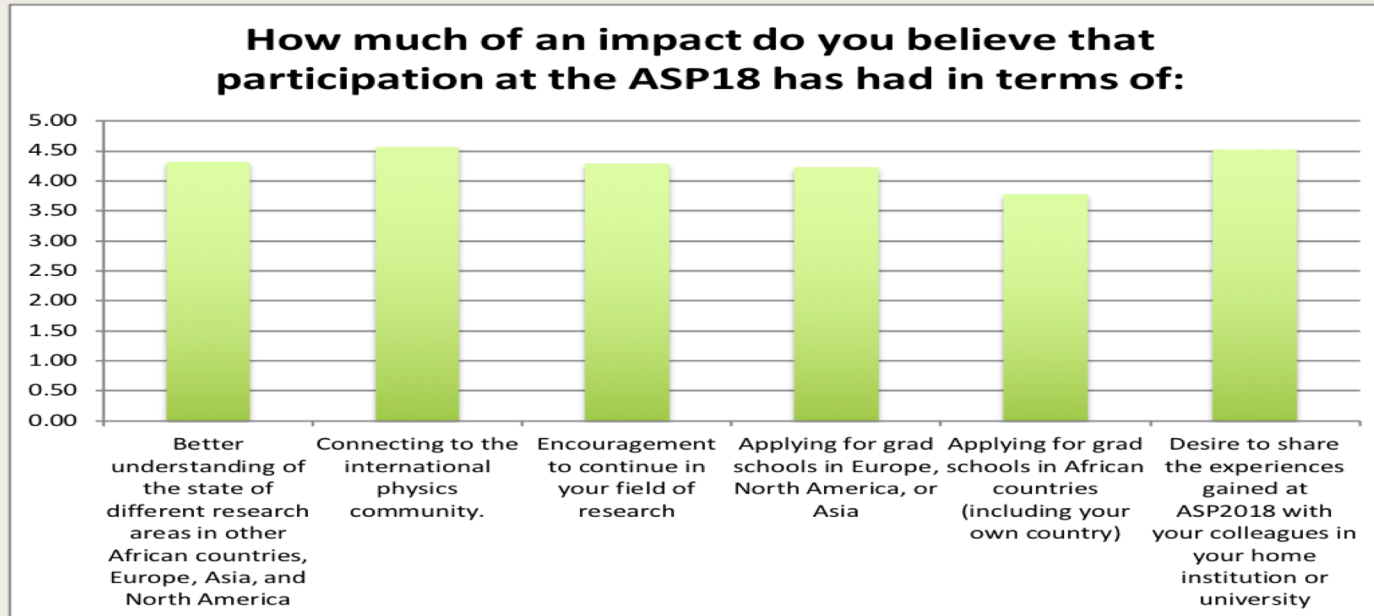
- Two types of surveys done

- One toward the end of each edition (current participants)
- One every 4 years (all alumni)

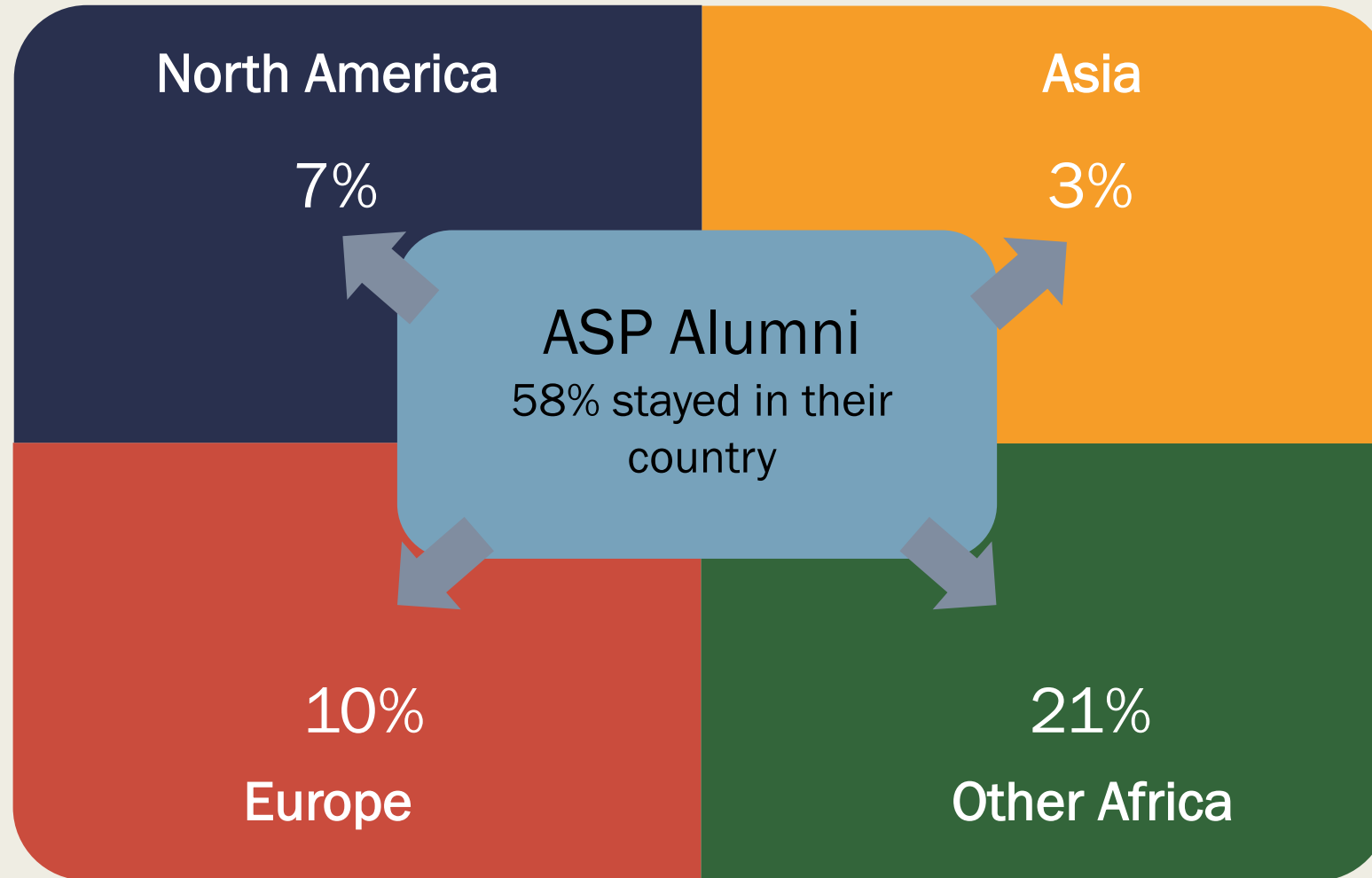


5 = very satisfied; highest impact

My research has benefited through professional contacts made at ASP



# Retention. Where do ASP alumni go?



# ASP Structured Mentorship

- This includes all the activities in-between consecutive term ASPs to further support alumni's growth and academic progress

# Short-Term Visits for Research

- June-December 2019, 9 ASP alumni came to Brookhaven National Laboratory for short-term research



From left to right: in front, Christelle Ekosso (Cameroon), Dr. Mounia Laassiri (Morocco); standing, Diallo Boye (Senegal), Dr. Somiealo Azote (Togo), Jesutofunmi Fajemisin (Nigeria), Hassnae El Jarrari (Morocco), Dr. Kétévi A. Assamagan, Raymond Yogo (Kenya), and Yves Kini (Burkina Faso). Heba Sami Abdulrahman (Egypt), not in the figure, arrived in September.

Dr. Kétévi A. Assamagan, BNL & Fellow of the African Academy of Sciences

# Alumni from African School of Physics Come to Brookhaven Lab for Hands-on Work Experience



■ <https://www.bnl.gov/newsroom/news.php?a=216732>



# Alumni from African School of Physics Come to Brookhaven Lab for Hands-on Work Experience



Summer 2019 BNL

# ASP Alumnus Yves Kini Publication Based on Study Done during his Short-Term Visit at BNL

Cornell University

We gratefully acknowledge support from the Simons Foundation and member institutions.

arXiv.org > astro-ph > arXiv:2007.10334

Search... All fields Search

Help | Advanced Search

Astrophysics > High Energy Astrophysical Phenomena

[Submitted on 20 Jul 2020]

## Ultra-High-Energy Tau Neutrino Cross Sections with GRAND and POEMMA

Peter B. Denton, Yves Kini

Next generation neutrino experiments will push the limits in our understanding of astroparticle physics in the neutrino sector to energies orders of magnitude higher than the current state-of-the-art high-energy neutrino experiment, IceCube. These experiments will use neutrinos to tell us about the most extreme environments in the universe, while simultaneously leveraging these extreme environments as probes of neutrino properties at the highest energies accessible in the foreseeable future:  $E \sim 10^9$  GeV. At these energies neutrinos are readily absorbed in the Earth. Assuming an isotropic distribution, by looking at how the flux varies as a function of angle through the Earth, we show that it is possible to extract the  $\nu_\tau$ - $N$  cross section with precision at the  $\sim 20\%$  level ( $1\sigma$  assuming Wilks' theorem) given  $N_{\text{events}} \sim 100$  events.

Comments: 7 pages, 5 figures, comments welcome

Subjects: **High Energy Astrophysical Phenomena (astro-ph.HE)**; High Energy Physics - Experiment (hep-ex); High Energy Physics - Phenomenology (hep-ph)

Cite as: arXiv:2007.10334 [astro-ph.HE]  
(or arXiv:2007.10334v1 [astro-ph.HE] for this version)

**Bibliographic data**  
[Enable Bibex (What is Bibex?)]

**Submission history**  
From: Peter Denton [view email]  
[v1] Mon, 20 Jul 2020 18:00:00 UTC (1,379 KB)

Which authors of this preprint are endorsers? | Disable MathJax (What is MathJax?)

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**References & Citations**

- INSPIRE HEP (refers to | cited by)
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ScienceWISE

BNL Advisor during short-term visit: Dr. Peter Denton (Theorist, neutrino physics)

# ASP Alumnus Dr. Mounia Laassiri gave an invited talk at DPF 2019-Boston

arXiv.org > physics > arXiv:1909.06309

Search...

Help | Advanced

Physics > Physics Education

[Submitted on 13 Sep 2019 (v1), last revised 18 Nov 2019 (this version, v2)]

## The African School of Fundamental Physics and Applications (ASP)

Kétévi Adiklè Assamagan, Mounia Laassiri

The African School of Fundamental Physics and Applications is a biennial school in Africa. It is based on the observation that fundamental physics provides excellent motivation for students of science. The aim of the school is to build capacity to harvest, interpret, and exploit the results of current and future physics experiments and to increase proficiency in related applications. The participating students are selected from all over Africa. The school also offers a workshop to train high school teachers, an outreach to motivate high school pupils and a physics conference to support a broader participation of African research faculties. Support for the school comes from institutes in Africa, Europe, USA and Asia. In this paper, we will present the school and discuss strategies to make the school sustainable.

Comments: 8 pages, 7 figures, Talk presented at the 2019 Meeting of the Division of Particles and Fields of the American Physical Society (DPF2019), July 29 – August 2, 2019, Northeastern University, Boston, C1907293

Subjects: **Physics Education** (physics.ed-ph)

Cite as: arXiv:1909.06309 [physics.ed-ph]

(or arXiv:1909.06309v2 [physics.ed-ph] for this version)

### Bibliographic data

[Enable Bibex (What is Bibex?)]

### Submission history

From: Mounia Laassiri [view email]

[v1] Fri, 13 Sep 2019 15:59:36 UTC (719 KB)

[v2] Mon, 18 Nov 2019 19:16:04 UTC (719 KB)

[Which authors of this paper are endorsers?](#) | [Disable MathJax](#) (What is MathJax?)

## Contribution to the DPF-2019 Proceedings

# Assisting Alumni in higher education opportunities



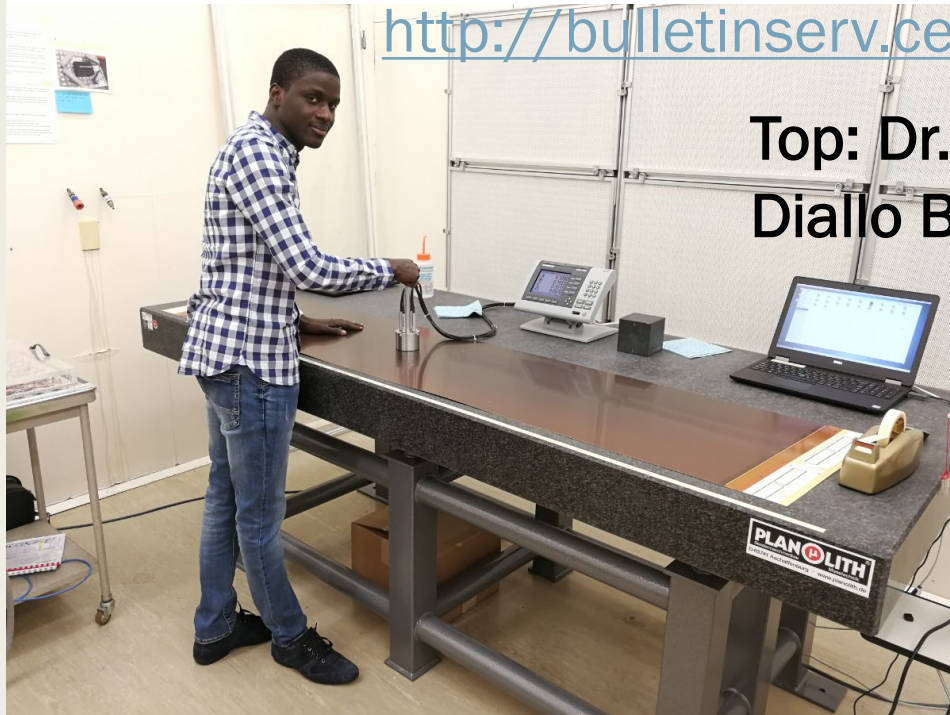
## THE AFRICAN SCHOOL OF PHYSICS: A SPRINGBOARD FOR THE FUTURE

A biennial African School of Physics (ASP) on fundamental physics and its applications was established in 2010 in order to promote international cooperation in the field of fundamental physics among African countries and between them and western countries.

An ASP has taken place every second year from 2010 to 2016 ...

[more >](#)

<http://bulletinserv.cern.ch/emails/archive/353/>



Top: Dr. Chilufya Mwewa, (Zambia, ASP2010), PhD (2020)  
Diallo Boye (Senegal, ASP2012), PhD (expected 2020)

Both Chilufya and Diallo have post-doc positions at BNL to work on the ATLAS Experiment

Many other cases of active engagement to help alumni

# Serving on Thesis Committees / External Examiners / External Reviewers

- Many of us, organizers or lecturers at ASP, do this

## Files status determination in a Large Scale Data Center

Aulan Lucrèce ZAHOUNDO (aulan@aims.ac.za)  
African Institute for Mathematical Sciences (AIMS)

Supervised by: Dr Kétévi Adiklè ASSAMAGAN  
Brookhaven National Laboratory, USA

02 May 2020

*Submitted in partial fulfillment of a structured masters degree at AIMS South Africa*



## Abstract

Being able to manage the space allocated to the ATLAS dCache despite the large amount of data that comes into it is a great challenge for analysts at the Brookhaven National Laboratory. The main goal of our work is to classify these data according to their importance for physics. To do this, we have, at first glance simulating data in the ideal case, discussing experiences which in reality have made it possible to obtain them. And we then apply a Machine Learning algorithm to our simulated data in order to find solve the storage issue.

Lucrèce Zahoundo (Bénin), alumnus ASP2018  
MSc thesis study done using Deep Learning Tools

Dr. Assamagan, Prof. Connell and Prof. Lerothodi Leeuw  
co-advised Diallo Boye (alumnus ASP2012)  
to the PhD on ATLAS. Diallo is now a post-doc at BNL.

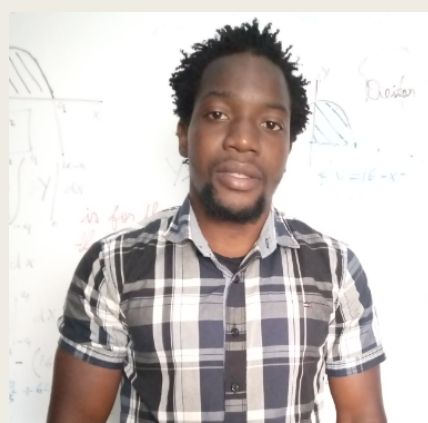
Many other cases like this

# Getting Busy during COVID-19 Pandemic

- ASP alumni studying COVID-19 data of African Countries
- Previous study submitted for publication in the Scientific African
  - <https://arxiv.org/pdf/2007.10927.pdf>
- In subsequent work, we analysis one years of COVID-19 data of 10 African countries, including South Africa
  - *Because South Africa has near 50% of all the COVID-19 cases in Africa, our analysis covered over 50% of all the African COVID-19 cases*
  - <https://arxiv.org/pdf/2104.09675.pdf>



**Dr. Somiéalo Azote**  
Togo



**Toivo Samuel Mabote**  
Mozambique



**Ebode Fabien Onye**  
Cameroon



**Dr. Dephney Mathebula**  
South Africa



**Kondwani C. C. Mwale**  
(Malawi)



**George Zimba**  
Zambia



**Essossolim C. Haliya**  
Togo



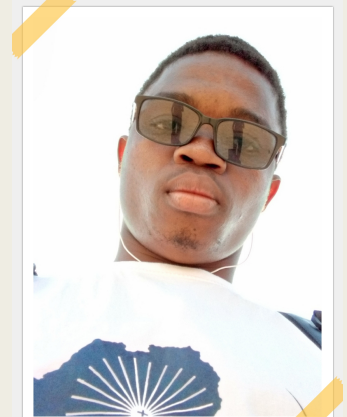
**Ann Njeri**  
Kenya



**Dr. Kossi Amouzouvi**  
Togo



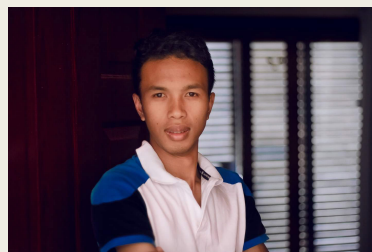
**Aluwani Guga**  
South Africa



**Francisco F. Macucule**  
Mozambique



**Dr. Laza Rakotondravohitra**  
Madagascar



**Dr. Fenosoa Fanomezana**  
Madagascar

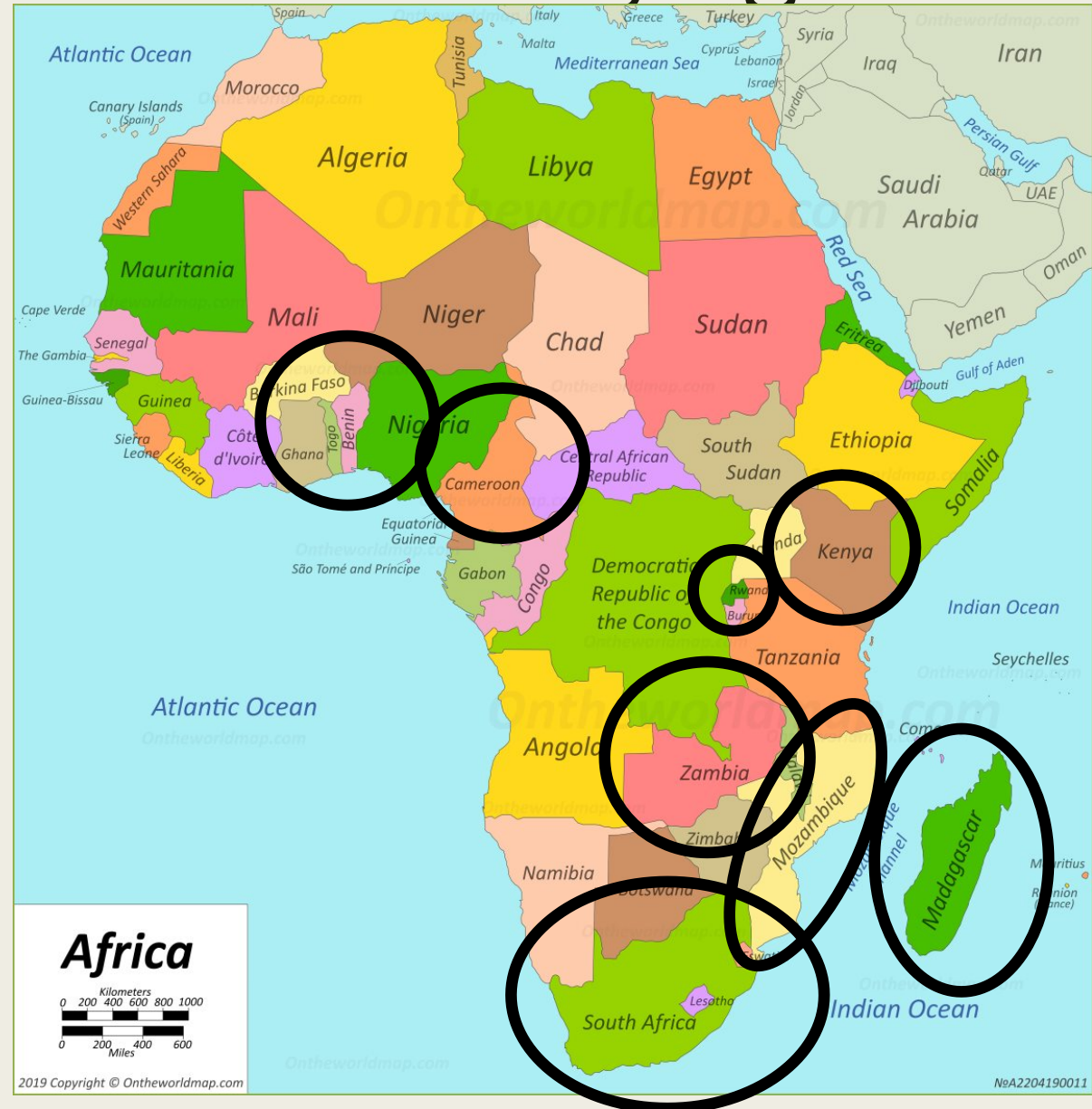
**Prof. Azwinndini Muronga**  
Nelson Mandela University



**Prof. Simon Connell**  
(University of Johannesburg)

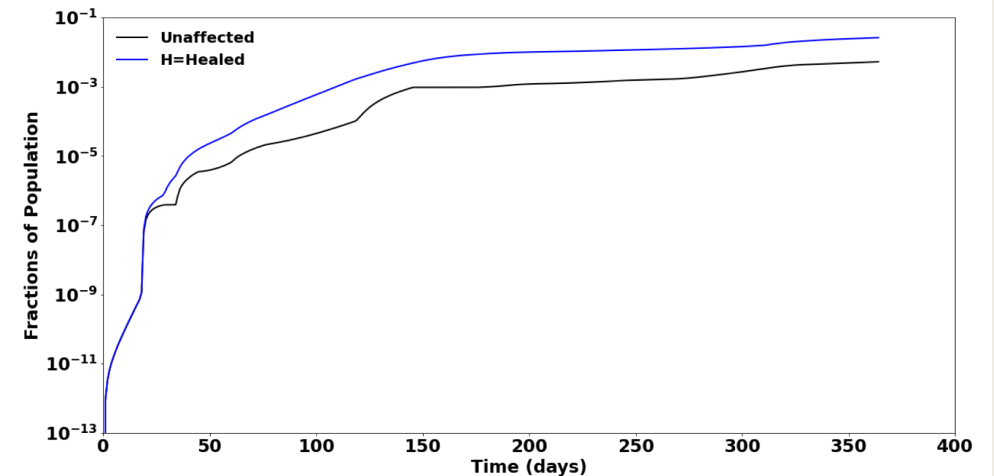
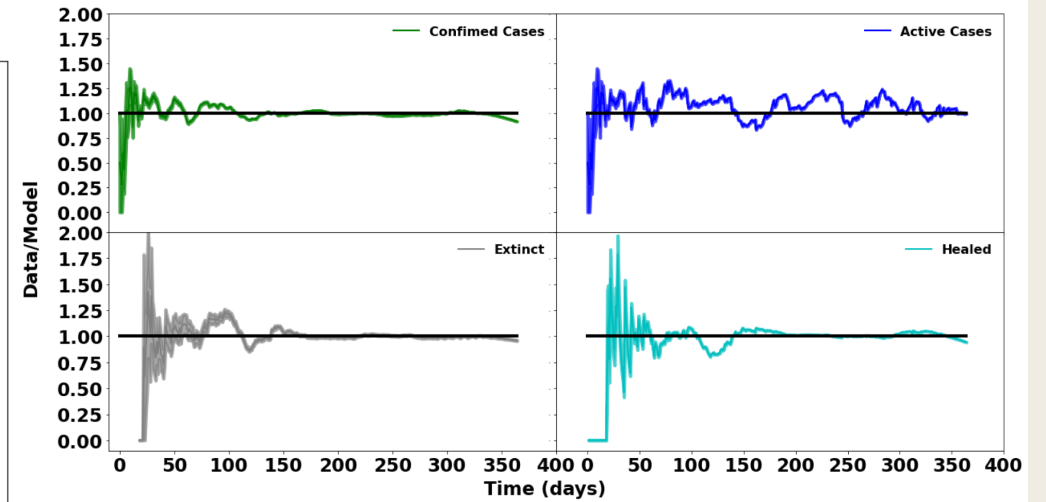
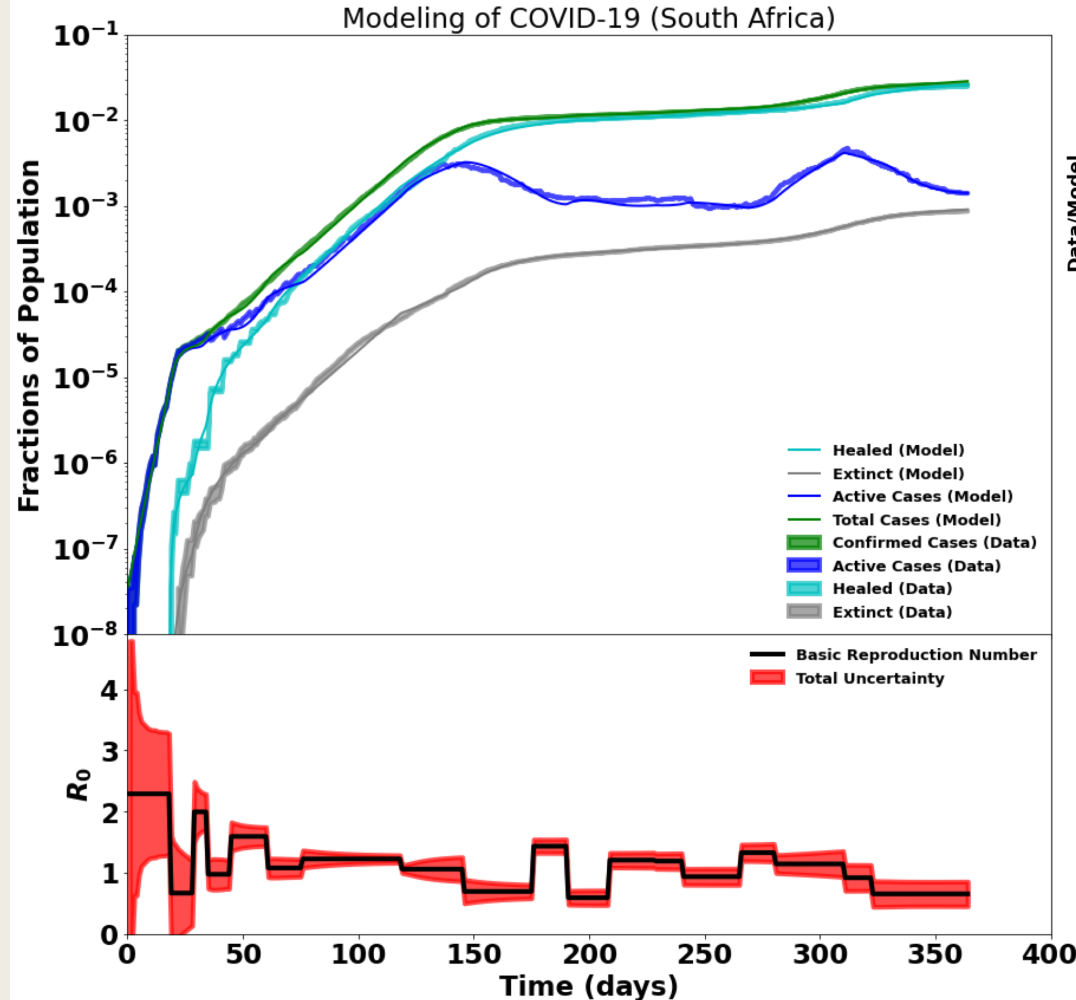
# The countries that we are studying

- Benin
- Cameroon
- Ghana
- Kenya
- Madagascar
- Mozambique
- Rwanda
- South Africa
- Togo
- Zambia





# COVID-19 Data Analysis – South Africa



An updated paper

<https://arxiv.org/pdf/2104.09675.pdf>

# Recent events / What's happening...

- ASP mentorship program is on-going
- ASP2020 → ASP2021
  - *July 19-30, 2021,*  
<https://indico.cern.ch/event/812393/timetable/?view=standard>
  - *3-week program condensed into 2 weeks where the 2<sup>nd</sup> week has 2 parallel sessions*
  - *In parallel, online workshop for African high school teacher, July 21-23, 2021,*  
<https://indico.cern.ch/event/1050810/>
- African Conference on Fundamental and Applied Physics (ACP)
  - *This conference is normally integrated in ASP in its 3<sup>rd</sup> week*
  - *ACP2020 was planned in Marrakesh, Morocco in July 2020; postponed to December 12-18, 2021, ACP2021*
- ASP online seminars
  - *Weekly or bi-weekly since May 2020*

# ACP2021, March 7-11, 2022; virtual

- 649 registrations
  - *Largest participation see in these types of events in Africa*
- Scientific program
  - <https://indico.cern.ch/event/1060503/>
- Conference proceedings
  - *In preparation*

**THE SECOND BIENNIAL AFRICAN CONFERENCE ON FUNDAMENTAL PHYSICS AND APPLICATIONS**  
12-18 December 2021  
Co-organized by Mohammed V University in Rabat & Cadi Ayyad University in Marrakesh, Morocco  
at Faculty of Science Semlalia, Marrakesh

**ACP**  
To increase capacity development in fundamental physics and related applications in Africa. The ASP has evolved to be much more than a school. It is a program of actions with directed ethos toward physics as an engine for development in Africa

**SCIENTIFIC PROGRAM**  
► TOPICS

- Astrophysics & Cosmology
- Nuclear & Particle Physics
- Accelerator, Radiation & Medical Physics
- Renewable Energies & Energy Efficiency
- Materials Physics
- High Performance Computing
- Physics Education
- Physics Communication
- Quantum Information

www.africanschoolofphysics.org/acp2020/

Logos at the bottom include: FSU, U.S. DEPARTMENT OF ENERGY, THE UNIVERSITY OF BIRMINGHAM, UNIVERSITY OF TEXAS ARLINGTON, MARRAKECH, INFN, DESY, CERN, EUROPEAN SYNCHROTRON SOURCE, NRF, Temba LABS, RIS, UAP, UPPSALA UNIVERSITET, and others.

# ASP2022 in South Africa

- Due to uncertainty about COVID-19
  - *In 2022, ASP will be split in 2 events in 2022*
- ASP2022
  - *2-week school in-person (Nelson Mandela University) or online*
  - *Date: November 28 – December 9, 2022*
- ACP2022
  - *One week conference, hybrid*
  - *November / December 2023*
  - *Venue to be decided*

# Conclusions

- Since the first edition in 2010, on top of the students program, ASP has evolved with the addition of:
  - *Teachers program*
  - *High school outreach*
  - *Structured mentorship program*
  - *International conference catered to student alumni and research faculties*
  - *Online lectures*
- ASP has evolved to be much more than a school. It is a program of actions with directed ethos toward physics as an engine for development in Africa
- Application for ASP 2021-2023 Mentorship closed
  - *Program currently running*
- ASP online seminar series to re-start in September until November 2021
- ACP2021: March 7-11, 2022 in Virtual
  - *Conference proceedings being prepared*
- ASP in 2022 in South Africa
  - *2-week School on November 28 – December 9, 2022, at NMU*
  - *1-week conference in November / December 2023*

# ASP Structured Mentorship

- It runs continuously even when there is no school;
- Open to ASP student alumni in Ph.D. programs;
- Pairing of students to lecturers. Lecturers to mentor and coach them;
  - *Not a replacement of academic advisors, rather in addition to / in collaboration with it*
- Helps IOC track students after the school;
- Helps answer the questions, “Where are they now?”, “What happens to them after they’ve attended ASP?”
  - *These are legitimate questions*
  - *Mentorship program supplemented by periodic of surveys*
- Program formalized soon after ASP2016;
- Through this program, we place ASP alumni in high education programs in South Africa, Asia, Europe and North America



# Project Goals/Aims

- To build capacity for Africa
- Support students
- Identify academic related obstacles
- Study problems solving trends
- Identify physics related challenges in Africa
- Help manage and differentiate types of needs
- To measure the impact of the ASP

**Not a replacement of Academic Advisor. Rather in collaboration with**

# Mentorship Registration & Selection

- ❑ Registration closed for 2021-2023
  - ❑ <https://indico.cern.ch/event/971926/>
- ❑ Selection
  - ❑ *IOC and lecturers make selections after the registration period*
- ❑ 2021-2023 Mentorship
  - ❑ *Started in March/ April 2021 after briefings*



# Mentorship Program 2021-2023

- Background... Looking back at 2016-2020
- Project Goals/Aims
- Responsibilities of the Mentor
- Responsibilities of the Mentee
- Pairing process
- Evaluating the Mentor
- Overview - what's next?
- Methods of communication
- Application period

# Mentorship Program Background

- ❑ The previous round (2016-2020)
- ❑ Lecturers & Student interactions during/after the ASP school
- ❑ What is the idea of a mentorship?
- ❑ Benefits of Mentorship
- ❑ Accelerating and addressing African students' academic needs
- ❑ Help increase information access

# Responsibilities: Mentor

Supplement Academic Advisory to support and ensure student growth and progress

- Active contact
- Concern self with students progress
- Point student to resources
- Direct student
- Every activity must be for the student's benefit
- Minimum coaching where needed

# Responsibilities: Mentee

- To Communicate
- Be enthusiastic about their own work
- To seek help
- To explore all possible resources first at own University
- Consult your supervisor
- Keep Mentor informed of necessary changes
- Be available - either on call or through Skype or other means when needed
- To follow through with suggestion of Mentor unless with good reason

# Pairing Process

- ❑ Current situation
- ❑ Choosing participants:
- ❑ The mentors      the correct students



- ❑ Teaching fanatic
- ❑ Previous ASP participant
- ❑ Understanding of African dynamics projects

- PH.D students
- Previous ASP student
- Is involved in direct science related

# Evaluation the Mentor

- Mid-point evaluation in a year...?
- ...and at the end of the program

# Plan Overview

- ❑ Mentees briefing
- ❑ Introduction email **to Mentors & Mentees**
- ❑ Start of program **March-April 2021**
- ❑ Duration of a cycle
- ❑ *1/2 years*

# Communication with your Mentor...

- ❑ Email, Skype, Zoom, ...
  - ❑ *Issues of good internet connectivity*
- ❑ Telephone



## Areas that need improvement (mentees/mentor)



- Mentor's area of expertise
- Improve in ways to hear how the program is going, like regular meeting with the mentees
- For a good mentorship program, you need to be close by student and mentor.
- Sharing of opportunities and networking of prominent researchers in the mentee's field should be encourage. Also, the mentees should be motivated to engage in community services in his/her home country and be supported if need be.
- I think financial resources are the biggest issue.
- It may be very great if we have more exchange.
- Better communication platform

# Additional Materials