

ASFAP—Young Physicists Forum

Mounia Laassiri

Mohammed V University in Rabat, Morocco
On behalf of the YPF Co-conveners

ASP2021 — July 19-30, 2021

July 23, 2021



What is ASFAP?

The **African Strategy for Fundamental and Applied Physics (ASFAP)** is a scientific study. It provides an opportunity for the entire **Fundamental** and **Applied Physics** community to come together to identify and document a scientific vision for the future of Fundamental and Applied Physics in Africa.

<https://africanphysicsstrategy.org/>



- **16 Physics Working Groups**
- **6 Engagement Committees and Fora**
- **200 Individual Members**



ASFAP co-founders

The **ASFAP** initiative is co-founded by the Pan African and African Diaspora physicists:



Dr. Kétévi Assamagan
Brookhaven National
laboratory, USA



Prof. Simon Connell
University of Johannesburg,
South Africa



Prof. Farida Fassi
University of Mohammed V
in Rabat, Morocco



Prof. Shaaban Khalil
Center for Fundamental
Physics,
Zewail City, Egypt



Dr. Fairouz Malek
CNRS and Grenoble
University, France

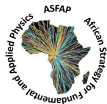
Steering Committee: ASFAP-SteeringCommittee@cern.ch

Proposal and Founding Document:

<https://twiki.cern.ch/twiki/bin/view/AfricanStrategy/AfFoundingDocument>



ASFAP Organization



The Young Physicist— A profile

You are not "young"? No, wait, do not leave my talk!!!

Who is young?

We have defined a **"young Physicist"** as any physicists —from **undergraduates** to **postdoctoral researchers**—

Hence, **in our physics field being "young" is maybe not directly correlated to our age...!**



**The next Generation
of Physicists in AFRICA**

Young Physicists Forum (YPF) at a glance

The Young Physicists' Forum (YPF) is an opportunity for Young African Members of the **Fundamental** and **Applied Physics** community to gather, study and debate major issues they face in their research careers.

Discussions will be organized around three major topics:

- **Outreach and education**
- **Impact of globalization**
- **Building a robust and balanced field**



Young Physicists Forum (YPF) at a glance

YPF is a project started in 2021 by **ASFAP**, as a forum for **students and early career researchers in Physics**.

- **Encourage** leadership in young researchers in physics
- **Foster** physics among local communities and institutions
- **Connect** young physicists in Africa



UNDERGRAD
(BSc & MSc)

PhD Student

POST-DOC

PI/ Professor

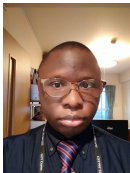


YPF Infrastructure

YPF project is managed by a co-conveners consisting of:



Dr. Amani M. Ebrahim
SLAC
USA
Light Sources and their applications



Dr. Bernard Mulilo
University of Zambia
Zambia
Nuclear and High Energy Physics



Dr. Diallo Boye
Brookhaven National laboratory
USA
Particle Physics



Dr. Mounia Laassiri
Mohammed V University
Morocco
Energy and Nuclear Physics

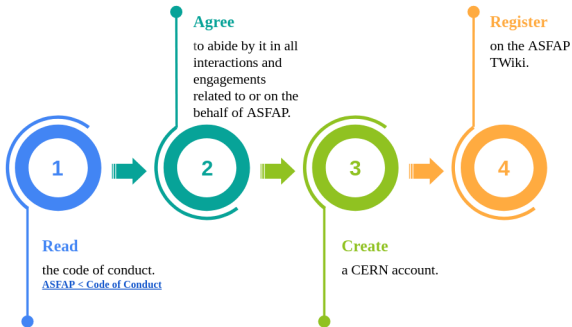



Young Physicists Forum: ASFAP-YoungPhysicists@cern.ch

How to become a YPF member

Would you like to become
a member of the YPF?

Just ask!



The instructions for registration as a member are available at:
[AfYoungPhysicists](#) < [AfricanStrategy](#) < [TWiki \(cern.ch\)](#) 

Benefits of joining the YPF

OUTREACH

Increase the awareness for the importance of scientific research amongst the young African Students.

PROFESSIONAL DEVELOPMENT

Acquire new skills and knowledge both for professional and career advancement.

NETWORKING

Bring together the community to design ways to enhance the young scholars in Africa.

Be part of an African network of people that share your passion for physics



...why ASFAP is promoting YPF?

- Give young African students/ researchers a space and a tool to realize their ideas
- Open the laboratories doors
- Create in young African students new skills
- Improve the career
- Teaching from an early age that the understanding of **physics**, it is a need for the civil society

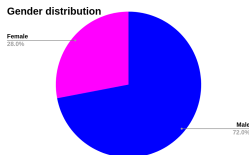
Moreover

- *Improve English*
- *Meet other African cultures and learn to socialize with them*
- *Learn to manage time for study, research and volunteering*



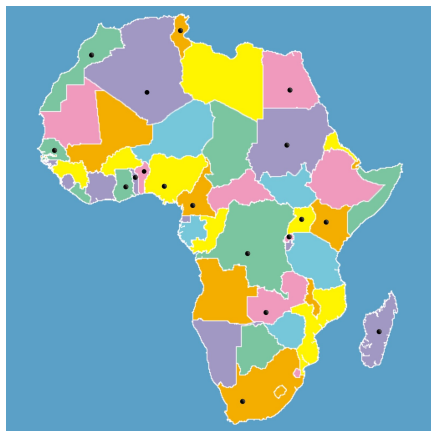
YPF Members

- Algeria (1)
- Benin (1)
- Cameroon (1)
- Congo (1)
- Egypt (1)
- Ghana (1)
- Kenya (1)
- Madagascar (1)
- Morocco (12)
- Nigeria (8)
- Rwanda (2)
- Senegal (1)
- South Africa (4)
- Sudan (2)
- Togo (4)
- Tunisia (1)
- Uganda (1)
- Zambia (3)



50 Members:

- 18 African Countries
- > 5 Countries out of Africa



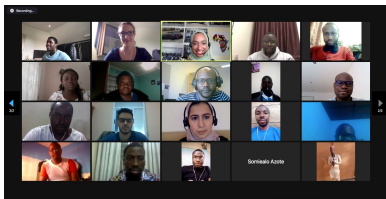
One of the goals of the YPF is to arrive at **100 YPF Members** by the end of 2021, starting from the 50 registered at the end of June 2021.

YPF Meetings

- ▶ **YPF Co-conveners Meeting: 9 meetings ✓**
 - Starting from **April 21st, 2021**, all YPF Co-conveners met weekly to review and coordinate the progress of the project.
- ▶ **YPF Members Meeting: 2 meetings ✓**

1st YPF Members Meeting: **June 09, 2021**

<https://indico.cern.ch/event/1034900/> 



2nd YPF Member Meeting: **June 23, 2021**

<https://indico.cern.ch/event/1034902/> 



YPF— The challenges that young physicists in Africa face

- Lack of research funding;
- Lack of funding for research equipment;
- Lack of mentoring and support;
- Lack of mobility opportunities;
- Lack of training opportunities to develop professional skills;
- Lack of access to library and/or information sources;
- ...



YPF— Planning and Actions

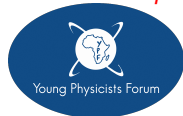
- **Build a community, share information** (grants, opportunities, online tools), **exchange experiences, future activities;**
- **Bring together the community to design ways to enhance the young scholars in Africa;**
- **Encouraging a dialogue** between young graduates, enterprise and academic research institutions to close the gap between industry and academia;
- **Mentoring program;**
- **Brain drain** and how to counter it;
- **How to make Africa attractive** for Young African Physicists;
- **How can young researchers drive change?**
- ...



YPF— African Physics Societies

- The focus, in the goals search, was also pointed on the need to involve more the **African Physics Societies**.
- A new process, approved from the YPF Co-conveners, provides the identification of an **YPF National Coordinator** in each African country.
 - A YPF National Coordinator is the contact person between YPF and National Physics Society; is responsible to report YPF activities in his/ her African country;
 - Has to collaborate with the National Physics Society to promote YPF and the National Physics Society itself;
 - Has to identify peculiar requests or needs of the National Physics Society to better match the integration of the YPF project at local level.

The main goal was fixed to go beyond the African Strategy and develop into an Association of Young African Physicists, affiliated to the African Physical Society.



ASFAP— YPF Logistics

- A platform to improve the communication
 - Between Co-conveners: ASFAP-YoungPhysicists-admin@cern.ch
 - Between each member and other members: ASFAP-YoungPhysicists@cern.ch

<https://africanphysicsstrategy.org/>



African Strategy for Fundamental and Applied Physics

MISSION

INTRODUCTION

Scientific and technological achievements have become commonplace. As remarkable as these achievements are for other regions of the world, enormous challenges and opportunities remain to be addressed in Africa. Although vital for development, Africa's science, innovation, education and research infrastructure, particularly in fields such as Fundamental and Applied Physics, has been over the years under-valued and under-resourced. The vision is that Africa should be able to participate to its maximum in the world of science.

[AFYoungPhysicists](#) < [AfricanStrategy](#) < [TWiki \(cern.ch\)](#)



[MouniaLaassirEmmel](#)
[Log Out](#)
[AfricanStrategy](#)

DOCUMENTS
 Founding Document
 Strategy Report
 WG Guidelines

SUPPORTS
 Endorsement
 Financial & In-kind

ORGANIZATION
 SteeringCommittee
 AdvisoryCommittee
 GroupConveners

PHYSICS GROUPS
 Accelerators
 Astrophysics & Cosmology
 Atomic & Molecular Physics
 Biophysics
 Computing & 4th Earth Science
 Energy
 Fluid and Plasma
 Instrumentation & Detectors
 Light Sources
 Materials Physics
 Medical Physics
 Nuclear Physics
 Particle Physics
 Optics and Photonics

TWiki > [AfricanStrategy](#) Web > [AFObservatories](#) > [AFPhysicEducation](#) > [AFWomenInPhysics](#) > [AFYoungPhysicists](#) (2021-07-30, MouniaLaassirEmmel)

Young Physicists Forum

The Young Physicists' Forum (YPF) — from undergraduates to postdoctoral researchers — is an opportunity for the Young African Members of the African Strategy for Fundamental and Applied Physics to discuss their research careers.



Mailing list: ASFAP-YoungPhysicists@cern.ch

Forum Conveners

Co-conveners Mailing list: ASFAP-YoungPhysicists-admin@cern.ch

NAME	AFFILIATION	EMAIL	Gender	African origin/Diaspora	Country of residence
Dr. Mounia Laassir MouniaBo	Mohammed V University	mounia.boassir@gmail.com	F	Morocco	Morocco
Dr. Diabo Boye Diabolo	Brookhaven National Laboratory	Diabo.Boye@cern.ch	M	Senegal	France
Dr. Bernard Mulilo BernardBo	University of Zambia	bernard.mulilo@gmail.com	M	Zambia	Zambia
Dr. Anwar M. Elbasher	SLAC	anwarname@gmail.com	F	Egypt	USA

Survey Announcement to the ASFAP— YPF

The ASFAP— YPF Survey team has prepared a survey for the entire Fundamental and Applied Physics community. The survey is designed to inform the ASFAP— YPF survey team about your opinions, experiences, and outlook. It covers several topics including but not limited to careers, physics outlook, workplace culture and the impacts of COVID-19.

You can find the survey here: [ASFAP— YPF Survey](#)

The survey will take approximately 20-30 minutes to complete and it will be open between July 15 and August 14, 2021 at 11:59 PM UTC.

We greatly appreciate your participation in this initiative! We also welcome recommendations for other ASFAP physics working groups who may like to complete the survey. Please also feel free to share the survey with your past and present colleagues in and outside the fundamental and applied physics research community, graduate and undergraduate students, etc.



Thank you for your participation in this survey!

Get involved with YPF!

**Projects such YPF help you to perceive the utility of what you are doing,
both in study and research**



Contacts



ASFAP-YoungPhysicists@cern.ch

ASFAP-LinkedIn



@StrategyAsfap



www.africanphysicsstrategy.org/



ASFAP-TWiki



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 ACP has evolved to be much more than a school. It is a program of activities with diversified efforts toward physics as an engine for development in Africa.

SCIENTIFIC PROGRAM

► TOPICS

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

www.africanconferenceonphysics.org/ACP2021/

ACP2021— Welcome to Marrakesh

THANK YOU!

