

**THE SECOND BIENNIAL AFRICAN CONFERENCE ON FUNDAMENTAL PHYSICS AND APPLICATIONS**  
 7-11 March 2022  
 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

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# ASP Forum: Part 1

## Welcome address

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African School of Fundamental Physics and Applications

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Christine Darve

### ACP2021

#### ACP2021 and ASP2021

ASP2021 School Program and Recordings

The 6th biennial African School of Physics has been held online on July 19-30, 2021. The ACP2021 is planned as a Virtual Event on March 7-11, 2022.

### Online Lectures

Library of Recorded Lectures

The online lecture series is a weekly seminar or colloquium to supplement the ASP term schools. It is organized continuously even when there is no term school. Experts are invited or volunteer to lecture on any topics in the areas of concentration of ASP students and alumni. Information and recordings available (here)

### ASP Study of COVID-19 Data from African Countries

ASP alumni have done a study to model COVID-19 data of various African Countries. The results are reported in two papers posted on arXiv, arXiv:2007.10927 and arXiv:2104.09675.

A study of COVID-19 data from African countries

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#### Photons and Neutrons in the quest to solve societal challenges

Research infrastructures like Light Sources and Neutron Sources are perfect tools for addressing a range of societal challenges. In this second ASP lecture series we focus on the descriptions of such infrastructures and the scope of photon and neutron

- Part A: From November 24 to December 10, 2020
- Part B: From January 12 to February 2, 2021



PROJECT



African Footprints of ACP2021 by institutional affiliations, March 7, 2022



**IYBSSD 2022**  
 International Year of Basic Sciences for Sustainable Development

**THE SIXTH BIENNIAL**  
 African School of Fundamental Physics and Applications  
 July 19-30, 2021  
 Virtual Edition



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PAUL SCHERRER INSTITUTE (PSI), U.S. DEPARTMENT OF ENERGY, THE UNIVERSITY OF BIRMINGHAM, UNIVERSITY OF TEXAS AT ARLINGTON, MADRAMECH, IN2P3, UPPSALA UNIVERSITET, INFN, DESY, UNIVERSITY OF THE WITWATERSRAND (WITS), CIRCS, UBUAP, ESRF, IEMBA LABS, NRF, RISA, and others.

14:00

→ 15:45

**ASP Forum: Part 1****Convener:** Mohamed Chabab (Cadi Ayyad University (MA))

14:00

**Welcome address**

🕒 10m

**Speaker:** Christine Darve (European Spallation Source, Sweden)

14:10

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

🕒 25m



The African School of Fundamental Physics and Applications (ASP) 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. ASP was started in 2010, but has since evolved to be much more than a school—it has grown to become a program of continuous activities with directed ethos towards physics as an engine for development in Africa. In this talk, we will present the school and discuss strategies to make it sustainable.

**Speaker:** Kétévi Adiklè Assamagan (Brookhaven National Laboratory (US))

14:40

**ASP2022 – South Africa**

🕒 25m



By September 30, 2019, South Africa was among four African countries that have submitted proposals to the International Organizing Committee (IOC) of the African School of Fundamental Physics and Applications (ASP) to host ASP2022. After reviewing all the proposals, the IOC in December of 2019 unanimously selected the bid from South Africa with the main aim of boosting capacity in smaller universities and in rural regions. The venue for ASP2022 in South Africa will be the Nelson Mandela University in Gqeberha (formerly Port Elizabeth) in the Eastern Cape Province.

This presentation will highlight the journey since the announcement, the host, supporting activities, and the current status regarding ASP2022 logistics & preparations.

**Speaker:** Azwinndini Muronga (Nelson Mandela University, South Africa)

15:10

**ASP Discussion**

🕒 25m



15:40

**Vote of Thanks**

🕒 5m

**Speaker:** Mohamed Chabab (Cadi Ayyad University (MA))