

# The Scientific Program of ASP2021



African School of Fundamental  
Physics and Applications

## Report of Contributions

Contribution ID: 475

Type: **not specified**

# **The big & small picture: links between particle physics and cosmology**

*Monday, July 19, 2021 12:00 PM (1 hour)*

**Presenter:** ELLIS, Jonathan R. (University of London (GB))

Contribution ID: 476

Type: **not specified**

## **Particle Matter Interactions**

*Monday, July 19, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** SEIDEL, Sally (University of New Mexico (US))

Contribution ID: 477

Type: **not specified**

## **Particle Matter Interactions**

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** SEIDEL, Sally (University of New Mexico (US))

Contribution ID: 478

Type: **not specified**

## **Accelerators**

*Monday, July 19, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** WANG, Gang (BNL)



Contribution ID: 479

Type: **not specified**

## **Keynote Address: My Life In and Out of Physics**

*Monday, July 19, 2021 5:30 PM (1 hour)*

### **ABSTRACT:**

A reflection on the trajectory and surprising breadth of a life enabled by mathematical and theoretical physics.

### **Light Sources and their Applications**

### **Other**

### **Materials Physics & nanoscience**

### **Physics Education and Communication**

### **High Performance Computing**

### **Renewable Energies & Energy Efficiency**

### **Accelerator, Radiation & Medical Applications**

### **Astrophysics & Cosmology**

### **Particle Physics**

## **Nuclear Physics**

**Presenter:** Prof. GATES, Sylvester James (Brown Univerity)

Contribution ID: 480

Type: **not specified**

# **Standard Model of Particle Physics**

*Tuesday, July 20, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. DJOUADI, Abdelhak (University of Granada (Spain))

Contribution ID: 481

Type: **not specified**

# **Standard Model of Particle Physics**

*Tuesday, July 20, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. DJOUADI, Abdelhak (University of Granada (Spain))

Contribution ID: 482

Type: **not specified**

# **Beyond the Standard Model of Particle Physics**

*Tuesday, July 20, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. DJOUADI, Abdelhak (University of Granada (Spain))



Contribution ID: 483

Type: **not specified**

## **Accelerators**

*Tuesday, July 20, 2021 4:30 PM (1 hour)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** Dr WANG, Gang (Stony Brook University)

Contribution ID: **484**

Type: **not specified**

## **Daily Discussion**

*Tuesday, July 20, 2021 5:30 PM (30 minutes)*

Contribution ID: 485

Type: **not specified**

## **Nuclear Physics**

*Wednesday, July 21, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** DALTON, Mark (Jefferson Lab)

Contribution ID: 486

Type: **not specified**

## **Astrophysics**

*Wednesday, July 21, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** PRESCOD-WEINSTEIN, Chanda (University of New Hampshire)

Contribution ID: 487

Type: **not specified**

## **Cosmology**

*Wednesday, July 21, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**



**Presenter:** PRESCOD-WEINSTEIN, Chanda (University of New Hampshire)

Contribution ID: 488

Type: **not specified**

## **Detectors**

*Monday, July 19, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** SEIDEL, Sally (University of New Mexico (US))

Contribution ID: **489**

Type: **not specified**

## **Daily Discussion**

*Wednesday, July 21, 2021 5:30 PM (30 minutes)*

Contribution ID: 490

Type: **not specified**

## **Materials Physics**

*Friday, July 23, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. HADDAD, Sonia (University of Tunis El Manar)

Contribution ID: 491

Type: **not specified**

## **Medical Physics**

*Thursday, July 22, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** AVERY, Stephen (University of Pennsylvania)



Contribution ID: 492

Type: **not specified**

## **Heavy Ion Physics**

*Thursday, July 22, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** BUTHELEZI, Edith Zinhle (iThemba LABS, National Research Foundation (ZA))

Contribution ID: 493

Type: **not specified**

**Break**

Contribution ID: 494

Type: **not specified**

## **High Performance Computing / Big Data**

*Thursday, July 22, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. YU, Jae (University of Texas at Arlington (US))

Contribution ID: 495

Type: **not specified**

## Daily Discussion

*Thursday, July 22, 2021 5:30 PM (30 minutes)*

Contribution ID: 496

Type: **not specified**

## **The Little Neutral One**

*Friday, July 23, 2021 1:30 PM (1 hour)*

An introduction to neutrino history and discoveries

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** BISHAI, Mary (Brookhaven National Laboratory)



Contribution ID: 497

Type: **not specified**

## **Flavor Physics**

*Thursday, July 22, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** CAMPANELLI, Mario (University College London (UK))

Contribution ID: 498

Type: **not specified**

## **Statistical Analysis**

*Friday, July 23, 2021 3:00 PM (1 hour)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 499

Type: **not specified**

## **Statistical Analysis**

*Friday, July 23, 2021 4:30 PM (1 hour)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: **500**

Type: **not specified**

## **Daily Discussion**

*Friday, July 23, 2021 5:30 PM (30 minutes)*

Contribution ID: 501

Type: **not specified**

## **Parallel Session 1: Accelerators**

*Monday, July 26, 2021 12:00 PM (1 hour)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**



**Presenter:** WANG, Gang (BNL)

Contribution ID: 502

Type: **not specified**

## **Parallel session 2: Materials Physics**

*Monday, July 26, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. HADDAD, Sonia (University of Tunis El Manar)

Contribution ID: 503

Type: **not specified**

## **Parallel Session 1: Accelerators**

*Monday, July 26, 2021 1:30 PM (1 hour)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** Dr WANG, Gang (BNL)

Contribution ID: 504

Type: **not specified**

## **Parallel session 2: Materials Physics**

*Monday, July 26, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. HADDAD, Sonia (University of Tunis El Manar)

Contribution ID: 505

Type: **not specified**

## **Parallel Session 1: Detectors**

*Monday, July 26, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**



**Presenter:** Prof. SEIDEL, Sally (University of New Mexico (US))

Contribution ID: 506

Type: **not specified**

## **Parallel session 2: Understanding the main relations of galaxies**

*Monday, July 26, 2021 3:00 PM (1 hour)*

Brief summary: This lecture will introduce us to an amazing and diverse world of galaxies and some of their main properties. We will see how different properties of galaxies can be related to specific galaxy types, and how different relations can help us in disentangling the picture of galaxy formation and evolution.

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

## **Light Sources and their Applications**

**Presenter:** Prof. POVIC, Mirjana (Ethiopian Space Science and Technology Institute (ESSTI))

Contribution ID: 507

Type: **not specified**

## **Parallel Session 1: LHC Analysis - Event Reconstruction**

*Tuesday, July 27, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** CAMPANELLI, Mario (UCL)

Contribution ID: 508

Type: **not specified**

## **Parallel session 2: An amazing world of active galaxies**

*Monday, July 26, 2021 4:30 PM (1 hour)*

Brief summary: Active galaxies are some of the brightest sources in the Universe in almost all parts of the electromagnetic spectrum, and therefore, very important for studying how the Universe was in its early stages and how galaxies formed and evolved throughout cosmic time. They are characterised by very complex and particular physics, and their research has contributed in recent decades to important technological developments that nowadays have application in different fields such as medicine, agriculture, or communications. During this talk, we will go through the general properties of active galaxies, a standard model of active galactic nuclei (AGN), AGN types, the role of AGN in the current models of galaxy evolution, but also through the importance of AGN research.

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

## **Astrophysics & Cosmology**

### **Light Sources and their Applications**

**Presenter:** Prof. POVIC, Mirjana (Ethiopian Space Science and Technology Institute (ESSTI))

Contribution ID: **509**

Type: **not specified**

## **Daily Discussion**

*Monday, July 26, 2021 5:30 PM (30 minutes)*



Contribution ID: 510

Type: **not specified**

## **Parallel Session 1: LHC Analyses - Event Triggers**

*Tuesday, July 27, 2021 10:30 AM (1 hour)*

(Chair : Ketevi Assamagan)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** CAMPANELLI, Mario (University College London (UK))

Contribution ID: 511

Type: **not specified**

## **Parallel Session 2: Astronomy for development in Africa**

*Tuesday, July 27, 2021 12:00 PM (1 hour)*

Brief summary: Africa has an amazing potential due to natural and human resources for scientific research in astronomy and space science. At the same time, the continent is still facing many difficulties, and many of its countries are now recognizing the importance of astronomy, space science, and satellite technologies for improving some of their main socio-economic and environmental challenges. The status of astronomy and space science in Africa changed significantly over the past years, and never before it was more possible to use astronomy for development as it is nowadays. This talk will summarise different activities carried out for education, science, and technological development, and show how through them we can fight poverty in the long term, and increase in future our possibilities of attaining the United Nations Sustainable Development Goals (SDGs) for the benefit of our all society.

### **Other**

### **High Performance Computing**

### **Renewable Energies & Energy Efficiency**

### **Materials Physics & nanoscience**

### **Physics Education and Communication**

### **Particle Physics**

### **Nuclear Physics**

## **Accelerator, Radiation & Medical Applications**

## **Astrophysics & Cosmology**

## **Light Sources and their Applications**

**Presenter:** Prof. POVIC, Mirjana (Ethiopian Space Science and Technology Institute (ESSTI))

Contribution ID: 512

Type: **not specified**

## **Parallel Session 1: LHC Analyses - Particle Identification**

*Monday, July 26, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. SEIDEL, Sally (University of New Mexico (US))

Contribution ID: 513

Type: **not specified**

## **Parallel Session 2: Nanoscience**

(Chair : Anne Dabrowski)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. MAAZA, Malik (iThemba Labs)



Contribution ID: 514

Type: **not specified**

## **Parallel Session 1: LHC Analyses - Background Estimation**

*Tuesday, July 27, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** CAMPANELLI, Mario (University College London (UK))

Contribution ID: 515

Type: **not specified**

## **Parallel session 2: Nanoscience**

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. MAAZA, Malik (iThemba Labs)

Contribution ID: 516

Type: **not specified**

## **Parallel Session 1: LHC Analyses - Systematic Uncertainties**

*Tuesday, July 27, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** CAMPANELLI, Mario (University College London (UK))

Contribution ID: 517

Type: **not specified**

## **Parallel session 2: Physics Education**

*Tuesday, July 27, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** CECIRE, Kenneth William (University of Notre Dame (US))



Contribution ID: **518**

Type: **not specified**

## **Daily Discussion**

*Tuesday, July 27, 2021 5:30 PM (30 minutes)*

Contribution ID: 519

Type: **not specified**

## **Parallel Session 1: Deep Learning**

*Wednesday, July 28, 2021 12:00 PM (1 hour)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 520

Type: **not specified**

## **Parallel session 2: Fluid & Plasma Physics**

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** FOSTER, John (The University of Michigan)

Contribution ID: 521

Type: **not specified**

## **Parallel Session 2: Optics & Photonics**

*Wednesday, July 28, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr CHERIF, Rim (Université de Carthage)

Contribution ID: 522

Type: **not specified**

## **Parallel Session 1: Nuclear Physics**

*Wednesday, July 28, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**



**Presenter:** DALTON, Mark (Jefferson Lab)

Contribution ID: 523

Type: **not specified**

## **Parallel Session 1: Nuclear Physics**

*Wednesday, July 28, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** DALTON, Mark (Jefferson Lab)

Contribution ID: 524

Type: **not specified**

## **Parallel session 2: Atomic & Molecular Physics**

*Wednesday, July 28, 2021 1:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr ABAH, Obinna (Queens U. Belfast )

Contribution ID: 525

Type: **not specified**

## **Parallel Session 1: Physics Education**

*Wednesday, July 28, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** CECIRE, Kenneth William (University of Notre Dame (US))

Contribution ID: 526

Type: **not specified**

## **Parallel Session 2: Atomic & Molecular Physics**

*Wednesday, July 28, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**



**Presenter:** Dr ABAH, Obinna (Queens U. Belfast )

Contribution ID: 527

Type: **not specified**

## Daily Discussion

*Wednesday, July 28, 2021 5:30 PM (30 minutes)*

Contribution ID: 528

Type: **not specified**

## Plenary Session: Poster Presentations

*Thursday, July 29, 2021 1:30 PM (1 hour)*

During this Poster session, the student will give a 10-minute presentation followed by 5 min of questions.

“Step, dip, and bell-shape traveling waves in a  $(2 + 1)$ -chemotaxis model with traction and long-range diffusion”

By KUIPOU Domgno (Cameroon)

“Radiation Dose to the Closest Critical Organ during External Beam Radiotherapy of Head & Neck, Breast and Cervix at the University College Hospital, Ibadan, Nigeria”

By Adenuga Temitope (Nigeria)

“Theoretical Investigation of the Molecular Structure, Vibrational Spectra, Thermodynamic and nonlinear Optical Properties of 4',5'-dibromo-2',7'-dinitro-fluorescin”

By Jean Baptiste Fankam Fankam (Cameroon)

“Analysis and monitoring of the performance of different solar photovoltaic technologies in an arid zone for the optimization of instantaneous production and the preservation of performance over time”

By Heyine Mohamed Saleck (Mauritania)

### Other

### High Performance Computing

### Renewable Energies & Energy Efficiency

### Materials Physics & nanoscience

### Physics Education and Communication

### Particle Physics

## **Nuclear Physics**

## **Accelerator, Radiation & Medical Applications**

## **Astrophysics & Cosmology**

## **Light Sources and their Applications**

**Presenters:** DARVE, Christine (European Spallation Source); ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))

Contribution ID: 529

Type: **not specified**

## **Parallel session 2: Quantum Information**

*Thursday, July 29, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. TELMINI, Mourad (University of Tunis El Manar)

Contribution ID: 530

Type: **not specified**

## **Parallel Session 2: Optics & Photonics**

*Thursday, July 29, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr CHERIF, Rim (Université de Carthage)



Contribution ID: 531

Type: **not specified**

## **Parallel session 2: Quantum Information**

*Friday, July 30, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. TELMINI, Mourad (University of Tunis El Manar)

Contribution ID: 532

Type: **not specified**

## **Parallel Session 1: Physics at underground facilities**

*Thursday, July 29, 2021 3:00 PM (1 hour)*

**Presenter:** Prof. FERRONI, Fernando (INFN-GSSI)

Contribution ID: 533

Type: **not specified**

## **Parallel session 2: Earth Science**

*Thursday, July 29, 2021 10:30 AM (1 hour)*

(Chair : Anne Dabrowski)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr VON DER HEYDEN, Bjorn (University of Stellenbosch)

Contribution ID: 534

Type: **not specified**

## **Parallel Session 1: Physics at underground facilities**

*Thursday, July 29, 2021 4:30 PM (1 hour)*

**Presenter:** Prof. FERRONI, Fernando (INFN-GSSI)

Contribution ID: 535

Type: **not specified**

## **Parallel session 2: Earth Science**

*Thursday, July 29, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr VON DER HEYDEN, Bjorn (University of Stellenbosch)



Contribution ID: 536

Type: **not specified**

## Daily Discussion

*Thursday, July 29, 2021 5:30 PM (30 minutes)*

Contribution ID: 537

Type: **not specified**

## **Parallel Session 1: Medical Physics**

*Friday, July 30, 2021 12:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. SEBIHI, RAJAA (Mohammed V University)

Contribution ID: 538

Type: **not specified**

## **Parallel session 2: Light Sources**

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr D'ALMEIDA , Thierry (X-Tech Labs (Benin))

Contribution ID: 539

Type: **not specified**

## **Parallel Session 1: Medical Physics**

*Friday, July 30, 2021 1:15 PM (1h 15m)*

with complementary comments by Marco Silari (CERN)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. SEBIHI, RAJAA (Mohammed V University)

Contribution ID: 540

Type: **not specified**

## **Parallel Session 1: Biophysics**

*Friday, July 30, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**



**Presenter:** Prof. KRUGER, Tjaart (University of Pretoria)

Contribution ID: 541

Type: **not specified**

## **Parallel Session 2: Energy Applications & Energy Efficiency**

*Friday, July 30, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr EGBE, Daniel Ayuk (ANSOLE)

Contribution ID: 542

Type: **not specified**

## **Parallel Session 1: Biophysics**

*Friday, July 30, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. KRUGER, Tjaart (University of Pretoria)

Contribution ID: 543

Type: **not specified**

## **Parallel session 2: Energy Applications & Energy Efficiency**

*Thursday, July 29, 2021 3:00 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr EGBE, Daniel Ayuk (ANSOLE)

Contribution ID: 544

Type: **not specified**

## **Guest of Honor Address - Mohammed V University, Morocco**

*Monday, July 19, 2021 10:00 AM (15 minutes)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**



**Presenters:** Prof. REGRAGUI , Mohammed (Mohammed V University in Rabat); Prof. EL HAJJAJI , Souad (Mohammed V University in Rabat )

Contribution ID: 545

Type: **not specified**

## **Guest of Honor Address - Cadi Ayyad University, Morocco**

*Monday, July 19, 2021 10:15 AM (15 minutes)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenters:** Prof. IFLAHEN, Fatima-Zahra (Vice-President in charge of research and International relations); Prof. HBIB, Hassan (President, Cadi Ayyad University, Marrakesh Morocco)

Contribution ID: 546

Type: **not specified**

# **The African Strategy for Fundamental and Applied Physics (ASFAP)**

*Monday, July 19, 2021 10:30 AM (25 minutes)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. KA, Oumar (Cheikh Anta Diop University, Senegal)

Contribution ID: 547

Type: **not specified**

## **ASP COVID-19 Analyses**

*Tuesday, July 20, 2021 10:00 AM (1h 30m)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr AZOTE, Somiéalo (Ca' Foscari University)

Contribution ID: 548

Type: **not specified**

## **ASP Brainstorming Session**

*Wednesday, July 21, 2021 10:45 AM (45 minutes)*

Where or how can [physics / and a physicist make the biggest positive impact in your countries / communities

What are the most important problems or questions that physicist can contribute to solving in your country/ region etc

What are the biggest challenges for you for a career in physics

How this particular African School of Physics benefit your studies and or career - what are your expectations from the school

How can the Africa School of Physics evolve / adapt to better serve the needs of your country / region or stage in your career

Please add you feedback to this google document:

[https://docs.google.com/document/d/1EtWrMunfsyTcDsCcBqiBWwlemp6Br\\_s0rPyFGbWukeY/edit?usp=sharing](https://docs.google.com/document/d/1EtWrMunfsyTcDsCcBqiBWwlemp6Br_s0rPyFGbWukeY/edit?usp=sharing)

### **Other**

### **High Performance Computing**

### **Renewable Energies & Energy Efficiency**

### **Materials Physics & nanoscience**

### **Physics Education and Communication**

### **Particle Physics**

### **Nuclear Physics**



## **Accelerator, Radiation & Medical Applications**

## **Astrophysics & Cosmology**

## **Light Sources and their Applications**

**Presenter:** DABROWSKI, Anne (CERN)

Contribution ID: 549

Type: **not specified**

# **Radiation Measurements and Dosimetry**

*Thursday, July 22, 2021 10:00 AM (1h 30m)*

(Chair : Christine Darve)

## **Light Sources and their Applications**

## **Other**

## **Materials Physics & nanoscience**

## **Physics Education and Communication**

## **High Performance Computing**

## **Renewable Energies & Energy Efficiency**

## **Accelerator, Radiation & Medical Applications**

## **Astrophysics & Cosmology**

## **Particle Physics**

## **Nuclear Physics**

**Presenter:** SILARI, Marco (CERN)

Contribution ID: 550

Type: **not specified**

## **ASP User Experience with DataCamp**

*Friday, July 23, 2021 10:00 AM (25 minutes)*

(Chair : Farida Fassi)

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** MAPEKULA, Xola (University of Johannesburg (ZA))

Contribution ID: 551

Type: **not specified**

# **African Young Physicists Forum**

*Friday, July 23, 2021 10:30 AM (25 minutes)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** Dr LAASSIRI, Mounia (Mohammed V University)

Contribution ID: 552

Type: **not specified**

## **African Women in Physics Forum**

*Friday, July 23, 2021 11:00 AM (25 minutes)*

**Presenter:** Dr CYULINYANA, Marie Chantal (University of Rwanda)



Contribution ID: 553

Type: **not specified**

## **Parallel session 2: Light Sources**

*Friday, July 30, 2021 1:15 PM (1h 15m)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Dr D'ALMEIDA , Thierry (X-Tech Labs (Benin))

Contribution ID: 554

Type: **not specified**

## **Parallel Session 1: Gravitational Waves**

*Monday, July 26, 2021 10:30 AM (1 hour)*

(Chair : Ketevi Assamagan)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. COCCIA, Eugenio (Gran Sasso Science Institute and INFN)

Contribution ID: 555

Type: **not specified**

## **Parallel Session 2: Statistical Analysis**

*Monday, July 26, 2021 10:30 AM (1 hour)*

(Chair : Christine Darve)

### **Other**

### **High Performance Computing**

### **Renewable Energies & Energy Efficiency**

### **Materials Physics & nanoscience**

### **Physics Education and Communication**

### **Particle Physics**

### **Nuclear Physics**

### **Accelerator, Radiation & Medical Applications**

### **Astrophysics & Cosmology**

### **Light Sources and their Applications**

**Presenter:** GROSS, Eilam (Weizmann Institute of Science (IL))

Contribution ID: 556

Type: **not specified**

## **Parallel Session 1: Neutrinos in the 21st Century**

*Tuesday, July 27, 2021 3:00 PM (1 hour)*

A survey of neutrino oscillations and current and future experiments

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** BISHAI, Mary (Brookhaven National Laboratory)



Contribution ID: 557

Type: **not specified**

## **Parallel Session 2: Internet of Things**

*Tuesday, July 27, 2021 10:30 AM (1 hour)*

(Chair : Fernando Ferroni)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** RAICH, Uli (retired)

Contribution ID: 558

Type: **not specified**

## **Parallel Session 1: Flavor Physics**

*Wednesday, July 28, 2021 10:30 AM (1 hour)*

(Chair : Steve Muanza)

### **Light Sources and their Applications**

### **Other**

### **Materials Physics & nanoscience**

### **Physics Education and Communication**

### **High Performance Computing**

### **Renewable Energies & Energy Efficiency**

### **Accelerator, Radiation & Medical Applications**

### **Astrophysics & Cosmology**

### **Particle Physics**

### **Nuclear Physics**

**Presenter:** PEPE-ALTARELLI, Monica (CERN)

Contribution ID: 559

Type: **not specified**

## **Parallel Session 2: Internet of Things**

*Wednesday, July 28, 2021 10:30 AM (1 hour)*

(Chair : Christine Darve)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** RAICH, Uli (retired)

Contribution ID: 560

Type: **not specified**

## **Parallel Session 1: Neutron Sources as tools for innovation**

*Thursday, July 29, 2021 10:30 AM (1 hour)*

(Chair : Christine Darve)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** DARVE, Christine (European Spallation Source)



Contribution ID: 561

Type: **not specified**

## **Parallel Session 2: Quantun Information**

*Wednesday, July 28, 2021 4:30 PM (1 hour)*

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** Prof. TELMINI, Mourad (University of Tunis El Manar)

Contribution ID: 562

Type: **not specified**

## **Plenary Session: Neutron Sources—Thermal neutron detection at ESS**

*Friday, July 30, 2021 10:30 AM (1 hour)*

(Chair : Christine Darve)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** KANAOKI, Kalliopi (ESS - European Spallation Source (SE))

Contribution ID: 563

Type: **not specified**

## **Parallel Session 2: Heavy Ion Physics**

(Chair : Ketevi Assamagan)

**Other**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**Particle Physics**

**Nuclear Physics**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Light Sources and their Applications**

**Presenter:** BUTHELEZI, Edith Zinhle (iThemba LABS, National Research Foundation (ZA))

Contribution ID: 564

Type: **not specified**

## **The African School of Physics (ASP)**

*Wednesday, July 21, 2021 10:00 AM (45 minutes)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenter:** ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US))



Contribution ID: 565

Type: **not specified**

## **Medical accelerators for radionuclide production and radiation therapy**

*Wednesday, July 21, 2021 4:30 PM (1 hour)*

**Presenter:** SILARI, Marco (CERN)

Contribution ID: 566

Type: **not specified**

# **The International Association of Physics Students (IAPS)**

*Monday, July 19, 2021 11:00 AM (25 minutes)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

**Presenters:** GARCIA, Duarte (IAPS); CHITRE, Ruhi (University of Warwick, United Kingdom & IAPS)

Contribution ID: 567

Type: **Poster Presentation**

## **POSTER CONTEST**

*Saturday, July 24, 2021 2:00 PM (6 hours)*

Please submit your poster by Saturday, July 24,  
by uploading it to this contribution:

The poster should present your PhD research, with emphasis on its potential to contribute to Africa's transformation.

Instructions:

- The title should be short and catchy.
- The file name shall be FirstLastNames\_OneKeyword.pdf
- The format: .pdf of A0 or slides
- Add your short biography
- Acronyms should be spelled out only the first time they are cited.

You can also drop your poster at : <https://drive.google.com/drive/folders/1YskQxj4HPMn5JH0h6tp1SFge8IgHYQDs?usp=sh>

### **Light Sources and their Applications**

### **Other**

### **Materials Physics & nanoscience**

### **Physics Education and Communication**

### **High Performance Computing**

### **Renewable Energies & Energy Efficiency**

### **Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

Contribution ID: **568**

Type: **not specified**

## Survey

*Friday, July 30, 2021 5:30 PM (10 minutes)*

Contribution ID: 569

Type: **not specified**

## **Certificates of participation and Concluding comments**

*Friday, July 30, 2021 5:40 PM (20 minutes)*

**Light Sources and their Applications**

**Other**

**Materials Physics & nanoscience**

**Physics Education and Communication**

**High Performance Computing**

**Renewable Energies & Energy Efficiency**

**Accelerator, Radiation & Medical Applications**

**Astrophysics & Cosmology**

**Particle Physics**

**Nuclear Physics**

