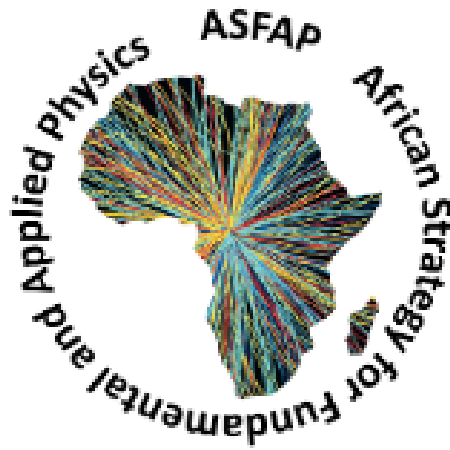


# **The African Strategy for Fundamental and Applied Physics (ASFAP)—towards the final report**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Introduction

*Sunday 15 December 2024 09:00 (10 minutes)*

**Presenter:** Prof. KHALIL IBRAHIM, Shaaban (ENHEP Egyptian Network of High Energy Physics (EG))

**Session Classification:** Overview

Contribution ID: 2

Type: **not specified**

## ASFAP Advisory Committee

**Session Classification:** Overview

Contribution ID: 3

Type: **not specified**

## Ethics in Physics

*Sunday 15 December 2024 09:55 (15 minutes)*

**Presenter:** MWEWA, Chilufya (Brookhaven National Laboratory (US))

**Session Classification:** Overview

Contribution ID: 4

Type: **not specified**

## Observers' feedback

*Sunday 15 December 2024 10:15 (15 minutes)*

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

**Session Classification:** Overview

Contribution ID: 5

Type: **not specified**

## Physics Education

*Sunday 15 December 2024 11:00 (30 minutes)*

**Presenter:** Prof. RAMAILA, Sam (University of Johannesburg)

**Session Classification:** Societal Engagements

Contribution ID: 6

Type: **not specified**

## Young Physicists Forum

*Sunday 15 December 2024 11:35 (30 minutes)*

**Presenter:** LAASSIRI, Mounia (Brookhaven National Laboratory)

**Session Classification:** Societal Engagements

Contribution ID: 7

Type: **not specified**

## Women in Physics

**Session Classification:** Societal Engagements



Contribution ID: 8

Type: **not specified**

## Community Engagements

*Sunday 15 December 2024 14:00 (30 minutes)*

**Presenter:** CHIDINMA JOY, Iroka (National Space Research and Development Agency, Nigeria)

**Session Classification:** Societal Engagements

Contribution ID: 9

Type: **not specified**

## Accelerator physics

*Sunday 15 December 2024 16:00 (30 minutes)*

**Presenter:** Dr SAMSAM, Sanae (INFN Milano)

**Session Classification:** Cross-cutting Fields

Contribution ID: **10**

Type: **not specified**

## Computing in Physics

*Sunday 15 December 2024 16:35 (30 minutes)*

**Presenter:** RAHAL, Ghita (Centre National de la Recherche Scientifique (FR))

**Session Classification:** Cross-cutting Fields

Contribution ID: **11**

Type: **not specified**

## **Instrumentation & Detectors**

**Session Classification:** Cross-cutting Fields

Contribution ID: **12**

Type: **not specified**

## Astrophysics

**Session Classification:** Particles & Related Applications

Contribution ID: **13**

Type: **not specified**

## Astrophysics

*Monday 16 December 2024 12:20 (30 minutes)*

**Presenter:** POVIC, Mirjana (ESSTI, Ethiopia)

**Session Classification:** Particles & Related Applications

Contribution ID: **14**

Type: **not specified**

## Particle Physics

*Monday 16 December 2024 09:00 (30 minutes)*

**Presenter:** KAR, Deepak (University of the Witwatersrand (ZA))

**Session Classification:** Particles & Related Applications

Contribution ID: 15

Type: **not specified**

## Nuclear Physics

*Monday 16 December 2024 09:35 (30 minutes)*

**Presenter:** USMAN, Iyabo (University of the Witwatersrand, South Africa)

**Session Classification:** Particles & Related Applications



Contribution ID: **16**

Type: **not specified**

## Medical physics

*Monday 16 December 2024 11:10 (30 minutes)*

**Presenter:** SEBIHI, Rajaa (Mohammed V Univeristy, Morocco)

**Session Classification:** Particles & Related Applications

Contribution ID: 17

Type: **not specified**

## Fluid and plasma physics

**Session Classification:** Particles & Related Applications

Contribution ID: **18**

Type: **not specified**

## Astrophysics

**Session Classification:** Particles & Related Applications

Contribution ID: **19**

Type: **not specified**

## Medical physics

**Session Classification:** Particles & Related Applications

Contribution ID: 20

Type: **not specified**

## Light Sources

**Session Classification:** Light Sources & Applications

Contribution ID: 21

Type: **not specified**

## Condensed Matter & Materials Physics

**Session Classification:** Light Sources & Applications

Contribution ID: 22

Type: **not specified**

## Condensed Matter & Materials Physics

*Monday 16 December 2024 17:10 (30 minutes)*

**Presenter:** IMANE, ADRAOUI (Ibn Zohr University, Morocco)

**Session Classification:** Light Sources & Applications

Contribution ID: 23

Type: **not specified**

## Atomic & Molecular Physics

*Tuesday 17 December 2024 09:00 (30 minutes)*

**Presenter:** KENMOE, Stéphane (Universitaet Duisburg-Essen, Germany)

**Session Classification:** Light Sources & Applications



Contribution ID: 24

Type: **not specified**

## Energy

**Session Classification:** Light Sources & Applications

Contribution ID: 25

Type: **not specified**

## Atomic & Molecular Physics

**Presenter:** KENMOE, Stéphane (Universitaet Duisburg-Essen, Germany)

**Session Classification:** Light Sources & Applications

Contribution ID: 26

Type: **not specified**

## biophysics

**Session Classification:** Light Sources & Applications

Contribution ID: 27

Type: **not specified**

## Earth Physics

**Session Classification:** Light Sources & Applications

Contribution ID: 28

Type: **not specified**

## Physics at Underground facilities

*Monday 16 December 2024 10:10 (30 minutes)*

**Presenter:** LEEUW, Lerothodi Leonard (University of Western Cape (ZA))

**Session Classification:** Particles & Related Applications

Contribution ID: 29

Type: **not specified**

## Women in Physics

*Sunday 15 December 2024 12:10 (30 minutes)*

**Presenter:** CHIDINMA JOY, Iroka (National Space Research and Development Agency, Nigeria)

**Session Classification:** Societal Engagements

Contribution ID: 30

Type: **not specified**

## Discussion on Societal Engagements

*Sunday 15 December 2024 14:35 (55 minutes)*

Physics Education  
Young Physicists Forum  
Women in Physics  
Community Engagements

**Presenters:** CHIDINMA JOY, Iroka (National Space Research and Development Agency, Nigeria); LAAS-SIRI, Mounia (Brookhaven National Laboratory); Prof. RAMAILA, Sam (University of Johannesburg)

**Session Classification:** Societal Engagements

Contribution ID: 31

Type: **not specified**

## Instrumentation & Detectors

*Sunday 15 December 2024 17:10 (30 minutes)*

**Presenter:** GUEYE, Paul (Facility for Rare Isotope Beams)

**Session Classification:** Cross-cutting Fields



Contribution ID: **32**

Type: **not specified**

## Discussion

Instrumentation & Detectors

**Session Classification:** Cross-cutting Fields

Contribution ID: 33

Type: **not specified**

## Discussion

Underground facilities

**Session Classification:** Particles & Related Applications

Contribution ID: **34**

Type: **not specified**

## Discussion

Particle physics

**Session Classification:** Particles & Related Applications

Contribution ID: 35

Type: **not specified**

## Discussion

Nuclear physics

**Session Classification:** Particles & Related Applications

Contribution ID: 36

Type: **not specified**

## Discussion

Medical physics

**Session Classification:** Particles & Related Applications

Contribution ID: 37

Type: **not specified**

## Fluid and plasma physics

*Monday 16 December 2024 11:45 (30 minutes)*

**Presenter:** MAKINDE, Daniel O. (Stellenbosch University, South Africa)

**Session Classification:** Particles & Related Applications

Contribution ID: **38**

Type: **not specified**

## Discussion

Fluid and plasma physics

**Session Classification:** Particles & Related Applications

Contribution ID: 39

Type: **not specified**

## Discussion

Astrophysics

**Session Classification:** Particles & Related Applications



Contribution ID: 40

Type: **not specified**

## Light Sources

*Monday 16 December 2024 16:00 (30 minutes)*

**Presenters:** KAMEL, Gihan (Helwan U., Egypt and SESAME Light Source); Prof. CONNELL, Simon (University of Johannesburg (ZA))

**Session Classification:** Light Sources & Applications

Contribution ID: 41

Type: **not specified**

## Discussion

Light sources

**Session Classification:** Light Sources & Applications

Contribution ID: 42

Type: **not specified**

## Discussion on particle related fields

*Monday 16 December 2024 14:35 (1 hour)*

**Presenters:** MURONGA, Azwinndini (Nelson Mandela University); LEEUW, Lerothodi Leonard (University of Johannesburg (ZA)); POVIC, Mirjana (ESSTI, Ethiopia); SEBIHI, Rajaa (Mohammed V Univeristy, Morocco); Prof. KHALIL IBRAHIM, Shaaban (ENHEP Egyptian Network of High Energy Physics (EG))

**Session Classification:** Particles & Related Applications

Contribution ID: 43

Type: **not specified**

## Discussion

Earth physics

**Session Classification:** Light Sources & Applications

Contribution ID: 44

Type: **not specified**

## Discussion

Condensed matter & materials physics

**Session Classification:** Light Sources & Applications

Contribution ID: 45

Type: **not specified**

## Discussion

Optics and photonics

**Session Classification:** Light Sources & Applications

Contribution ID: 46

Type: **not specified**

## Biophysics

*Tuesday 17 December 2024 09:35 (30 minutes)*

**Presenter:** SEWELL, Trevor (University of Cape Town, South Africa)

**Session Classification:** Light Sources & Applications

Contribution ID: 47

Type: **not specified**

## Discussion

Biophysics

**Session Classification:** Light Sources & Applications



Contribution ID: 48

Type: **not specified**

## Discussion

Energy

**Session Classification:** Light Sources & Applications

Contribution ID: 49

Type: **not specified**

## Discussion on light sources and applications

*Tuesday 17 December 2024 11:25 (1 hour)*

**Presenters:** IMANE, ADRAOUI (Ibn Zohr University, Morocco); VON DER HEYDEN, Bjorn; SERAFINI, Luca (INFN-Milan); SEWELL, Trevor (University of Cape Town, South Africa)

**Session Classification:** Light Sources & Applications

Contribution ID: **50**

Type: **not specified**

## Discussion

Discussion on light sources & applications

**Session Classification:** Light Sources & Applications

Contribution ID: 51

Type: **not specified**

## Societal engagements

*Tuesday 17 December 2024 14:25 (15 minutes)*

**Presenters:** CHIDINMA JOY, Iroka (National Space Research and Development Agency, Nigeria); LAAS-SIRI, Mounia (Brookhaven National Laboratory); Prof. RAMAILA, Sam (University of Johannesburg)

**Session Classification:** Summary, Conclusions and recommendations

Contribution ID: 52

Type: **not specified**

## Particles & Related Applications

*Tuesday 17 December 2024 14:45 (15 minutes)*

**Presenters:** Prof. FASSI, Farida (Universite Mohammed V (MA)); POVIC, Mirjana (ESSTI, Ethiopia); GU-EYE, Paul (Facility for Rare Isotope Beams); SEBIHI, Rajaa (Mohammed V Univeristy, Morocco)

**Session Classification:** Summary, Conclusions and recommendations

Contribution ID: 53

Type: **not specified**

## Light sources and applications

*Tuesday 17 December 2024 15:05 (15 minutes)*

**Presenters:** IMANE, ADRAOUI (Ibn Zohr University, Morocco); SERAFINI, Luca (INFN-Milan); MUSEMBI, Robinson Juma (University of Nairobi, Kenya); SEWELL, Trevor (University of Cape Town, South Africa)

**Session Classification:** Summary, Conclusions and recommendations

Contribution ID: 54

Type: **not specified**

## Cross-cutting fields

*Tuesday 17 December 2024 15:25 (15 minutes)*

**Presenters:** RAHAL, Ghita (Centre National de la Recherche Scientifique (FR)); Dr SAMSAM, Sanae (INFN Milano); GOERLACH, Ulrich (Centre National de la Recherche Scientifique (FR))

**Session Classification:** Summary, Conclusions and recommendations

Contribution ID: 55

Type: **not specified**

## Complex systems

**Session Classification:** Complex systems



Contribution ID: 56

Type: **not specified**

## Discussion

complex systems

**Session Classification:** Complex systems

Contribution ID: 57

Type: **not specified**

## Discussion on cross-cutting fields

*Sunday 15 December 2024 17:45 (55 minutes)*

Accelerators

Computing

Instrumentation & detectors

**Presenters:** RAHAL, Ghita (Centre National de la Recherche Scientifique (FR)); GUEYE, Paul (Facility for Rare Isotope Beams); Dr SAMSAM, Sanae (INFN Milano); GOERLACH, Ulrich (Centre National de la Recherche Scientifique (FR))

**Session Classification:** Cross-cutting Fields

Contribution ID: 58

Type: **not specified**

## Complex systems

*Monday 16 December 2024 14:05 (30 minutes)*

**Presenter:** MURONGA, Azwinndini (Nelson Mandela University)

**Session Classification:** Particles & Related Applications

Contribution ID: 59

Type: **not specified**

## Earth Physics

*Monday 16 December 2024 16:35 (30 minutes)*

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

**Session Classification:** Light Sources & Applications

Contribution ID: **60**

Type: **not specified**

## Energy

*Tuesday 17 December 2024 10:10 (30 minutes)*

**Presenter:** MUSEMBI, Robinson Juma (University of Nairobi, Kenya)

**Session Classification:** Light Sources & Applications

Contribution ID: **61**

Type: **not specified**

## Final report synthesis

*Tuesday 17 December 2024 15:40 (20 minutes)*

**Presenters:** Dr ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); MUSEMBI, Robinson Juma (University of Nairobi, Kenya)

**Session Classification:** ASFAP towards the final report

Contribution ID: 62

Type: **not specified**

## Moving forward toward the final report

*Tuesday 17 December 2024 16:05 (20 minutes)*

**Presenters:** KASRY, Amal (UNESCO); Dr ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); Prof. KHALIL IBRAHIM, Shaaban (ENHEP Egyptian Network of High Energy Physics (EG))

**Session Classification:** ASFAP towards the final report

Contribution ID: 63

Type: **not specified**

## Final remarks from the IAC

*Tuesday 17 December 2024 16:30 (5 minutes)*

**Presenter:** KIM, Young-Kee (University of Chicago (US))

**Session Classification:** ASFAP towards the final report



Contribution ID: 64

Type: **not specified**

## Feedback from UNESCO

*Sunday 15 December 2024 09:15 (15 minutes)*

**Presenter:** KASRY, Amal (UNESCO)

**Session Classification:** Overview

Contribution ID: 65

Type: **not specified**

## ASFAP status & plan

*Sunday 15 December 2024 09:35 (15 minutes)*

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

**Session Classification:** Overview