



# Towards ASP 2026

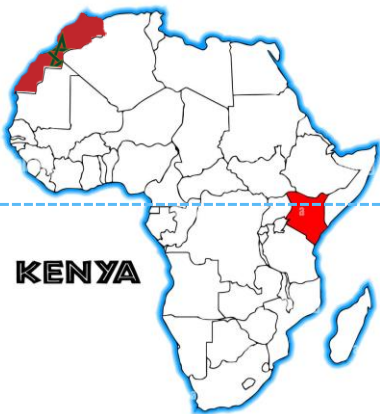
## University of Nairobi

### KENYA

June 15-29, 2026

University of Nairobi

<http://www.uonbi.ac.ke>



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# Introduction





**Pillars:**

- Economic
- Social
- Political

**Commitments:**


- ✓ Enhanced capacity in energy production
- ✓ Capacity building in education
- ✓ Science, Technology and Innovation

**Big 4 Action Plan:**


- ❖ Food Security
- ❖ Affordable Housing
- ❖ Manufacturing
- ❖ Affordable Health Care

**Science, Technology & Innovation - KEY TO NATIONAL DEVELOPMENT**

PHYSICS DRIVES STI ⇒ NATIONAL DEVELOPMENT




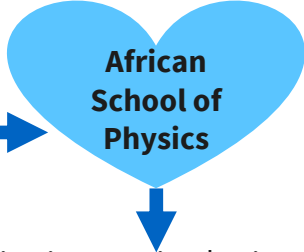
# CHALLENGES FACING YOUNG AFRICAN SCIENTISTS TODAY




Physics in Africa


- Inadequate learning resources
- Financial challenges
- Gender bias
- **Simplifying content for students**
- **Lack of mentorship in physics**
- Unemployment






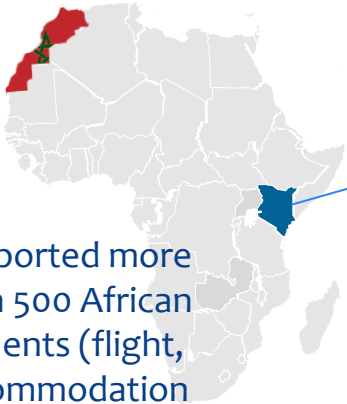


- Initiating interest in physics at early stages
- Breaking down physics concepts
- Collaborations
- Networking
- Mentorship
- Internships
- Sharing of knowledge



# ASP AND KENYA





**ASP:**


- Supported more than 500 African students (flight, accommodation & mentorship)

**Kenya**


- Number participated in ASP = **25**
- Students who have received internship/ scholarship as a result of interacting with ASP = **2**

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# OVERVIEW – ASP 2026




**80**

Students

Students will have 10 days lectures + excursions.

**2**

Weeks



Presentations

Delivery Methods


**80**

Teachers


Teachers will have 3 days lectures and 2 days hands-on experience

**5**


Days




Group Discussions



Experiments



Practicals



lectures



## OBSERVATIONAL ASTROPHYSICS



• **Observational astrophysics for ASP 2026**

• **Practical sessions**




## UNIVERSITY CONSORTIUM AND GOVERNMENT BODIES




### MINISTRY OF EDUCATION

- 1. National Research Fund (NRF)
- 2. National Commission for Science, Technology (NACOSTI)
- 3. Kenya Industrial Research and Development Institute (KIRDI)
- 4. Kenya Education Network (KENET)
- 5. etc

- 1. Catholic University of East Africa
- 2. Jomo Kenyatta University of Science and technology
- 3. Kenyatta University
- 4. Multimedia Media University of Kenya
- 5. Masinde Muliro University of Science and Technology
- 6. Makerere University
- 7. Newcastle University
- 8. University of Nairobi
- 10. Technical University of Kenya etc



## LOCAL ORGANIZING COMMITTEE



### Government Representation

- Prof. Dickson Andala (NRF)

### Inclusion

- Lydia Roos (KU & CNRS)
- Mary Simiyu (CERRA)
- Ann Njeri (NU)
- Gloria Katunge (UoN)
- Joyce Waithera (UoN)

### ASP Alumni

- Mary Simiyu (CERRA)
- Ann Njeri (NC)
- Gloria Katunge (UoN)

### Senior Professors

- Prof. Francis Nyongesa (UoN)
- Prof. Lydia Roos (KU & CNRS)
- Prof. Nadir Hashim (KU)

### University consortium

- 36% University of Nairobi
- 64% other Universities

### Young Doctors (Early Career)

- Dr. Victor Odari (MMUST)
- Dr. Erick Njogu (MMU)
- Dr. Sr. Mary Simiyu (CERRA)
- Dr. Ann Njeri (NU)
- Dr. James Sifuna (CUEA)

### Technicians

- Dickson Omucheni (UoN)
- Anold Bett (UoN)
- Joyce Waithera (UoN)
- Godwin Mwebase (MU)

### Diversity

- 80% Kenyan
- 20% none Kenyan


### Students

- ☐ Gloria Katunge (UoN)
- ☐ Brian Owino (UoN)


### International Conferences

- 90% experience in hosting international conferences
- 10% mentees

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## UNIVERSITY OF NAIROBI- DEPARTMENT OF PHYSICS



- **Capacity of University of Nairobi (60,000)**
- **Capacity of the Department of Physics**
  - Undergraduate (1000)
  - Masters (10)
  - Ph.D (40)
- **Thematic Areas**
  - Theoretical Physics
  - Condensed Matter Physics
  - Laser Physics and Spectroscopy
  - Nuclear and Radiation Physics
  - Geophysics

### Strategic Projects & Collaborations

1. International Science Program caters for gender inclusivity and sponsors high school physics mentorship, MSc and PhDs
2. **PASET** Regional Scholarship and Innovation Fund. This funds for Ph.D students all over Africa
3. **Gandhi Smarak Nidhi Fund Scholarship** caters for masters and Ph.D female students
4. Development of the **Engineering & Science Complex** under a French-Kenyan governmental agreement.
5. **EU Intra-Africa mobility scheme, GREEN-STEM 2024-2028** (Kenya, Nigeria, Rwanda, ZA+France)
6. UKRI – SA – Kenya collaboration to promote Capacity Building in Physics (New)
7. **ICTP**





## RECENT EVENTS ORGANISED BY UNIVERSITY OF NAIROBI IN PHYSICS -2023



1. Joint Undertaking for African Materials Institute, JUAMI 2023 (120)
2. Africa Climate Summit (ACS)
3. Materials Science and Solar Energy Network for Eastern and Southern Africa (MSSEESA) (50)
4. NAIROBI INNOVATION WEEK
5. RESEARCH WEEK - Faculty of Science & Technology (120)
6. Kenya Industrial Conference 2023 (105)
7. 6TH INTERNATIONAL CONFERENCE ON HEALTH (ICH 2023) (90)
8. Pan African Conference in Crystallography (80)
9. Second Annual Afretec Network Meeting, 2023 (60)
10. Fundamentals of crystallography (100)



JUAMI 2023 – 120 participants from 24 countries



## POLITICAL STABILITY, DIVERSITY & INCLUSIVITY



Kenya Peace keeping Missions (20)  
Gender representation (30% requirement)



The Universities also observes this 30% gender requirement  
The Dean of Faculty of Science is female

# ACCESSIBILITY



- International flights to Kenya**
1. Kenya airways
  2. Ethiopia Airways
  3. Turkish Airlines
  4. Qatar Airways
  5. Air France
  6. British Airways KLM
  7. Lufthansa
  8. Swiss International Airlines
  9. Etihad Airways
  10. Emirates
  11. Egypt Air

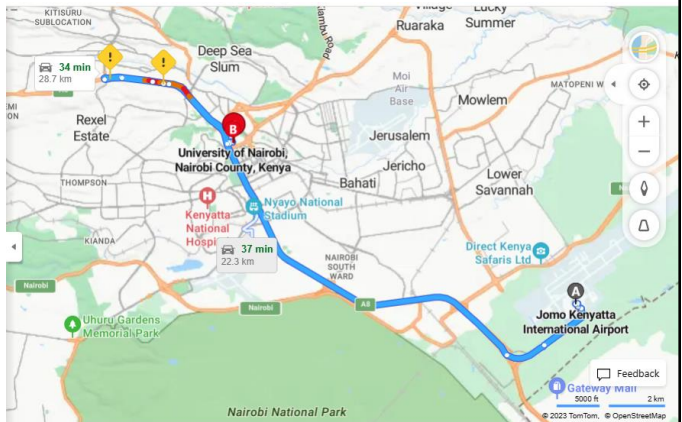
- No visa Requirement for Most African Countries



# UNIVERSITY OF NAIROBI



Located within The City of Nairobi




## UNIVERSITY OF NAIROBI FROM JOMO KENYATTA INTERNATIONAL AIRPORT





**20-40 min**



<http://www.uonbi.ac.ke>

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## CONFERRING FACILITIES AT UON





**University of Nairobi Towers has state-of-the-art Conference Facilities - 500 delegates.**





## BREAK ROOMS



- 5 Break rooms with capacity of 50 persons
- Public address system

- Computer rooms
- Both Windows and Linux
- 100 Mbps
- ICT support staff



## LABORATORY FACILITIES



**Physics laboratory for 100 Students  
Similar Labs for Chemistry, Engineering.**



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## RESEARCH LABORATORIES: RADIATION PHYSICS



EDXRF



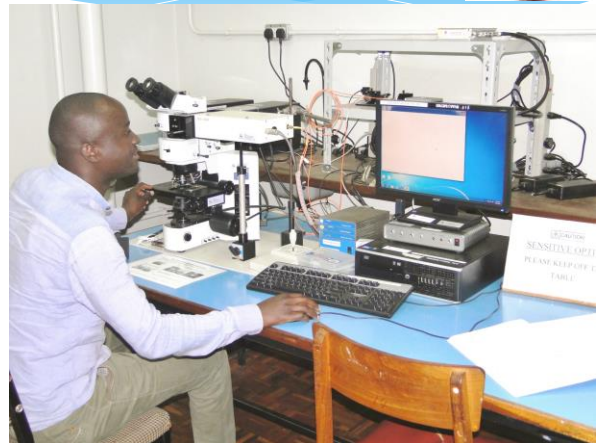
X-Ray production unit

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## LASER PHYSICS, MATERIALS SCIENCE ETC



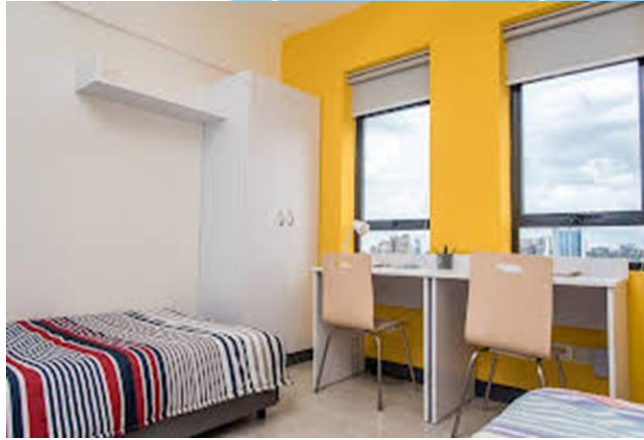
- Raman Spectrometer, LASER Induced Breakdown Spectrometer, UV/VS Spectrophotometer, Spin coating



## STUDENT HOSTELS



- 500 Students capacity
  - Self Contained
  - WIFI
  - Laundry
  - Meals
- Single/ Sharing



## Hotel for Lecturers – Nairobi Safari Club



- 5 star hotels - 150 USD
- 4-5 star hotels - (100-250 USD)
- 3-star hotels (30-100 USD)
- WALKING DISTANCE





## HOTELS NEAR UNIVERSITY OF NAIROBI



### HOTELS FOR 100 TO 250 USD (4-5 Star)

1. Nairobi Safari Club
2. Fairmont
3. Fair view Hotel
4. The Heron Hotel
5. DusitD2 Nairobi
6. Nairobi Derena Hotel
7. Sankara Nairobi
8. Radisson Blue and Residence Nairobi
9. Best Western Plus Westlands
10. Pride Inn Azure Hotel Nairobi
11. Fairmont the Norfolk
12. Villa Rosa Kempinski Nairobi
13. Radisson Blu Hotel & Residence, Nairobi Arboretum

### HOTELS FOR 30 to 100 USD (3 Star)

1. Delfirm Hotel
2. Hemak suites
3. Best Western Plus Meridian Hotel
4. Parklands Shade Hotel
5. Silver Springs Hotel
6. Kenya Comfort Suites
7. Capital Heights Hotel
8. Red Ruby Hotel
9. Blossom Spa Nairobi
10. Progressive Park Hotel
11. Taarifa Suites by Dunhill Serviced Apartments
12. Hotel Boulevard
13. Lotos Inn & Suites

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## CATERING



**Lavish catering facility on the 5th floor, UoN towers perfect for fine dining, VIP holding room, press room and secretariat**





## CULTURAL AND SOCIAL PROGRAMME



Excursions and gala dinner: Meals and cultural dances  
 Invite policy makers, researchers, educators and industry personnel.  
 Speeches from these groups of people will initiate , Networking and collaborations

Univ



## EXCURSIONS AND GALA DINNER



- Nairobi National Park game ride (Early morning)
- The animal orphanage (\$20 for non-East African)
- The Bomas of Kenya

# OUTREACH PROGRAMME

- Arranged for Schools near Nairobi



[www.uonbi.ac.ke](http://www.uonbi.ac.ke)



## Welcome to ASP 2026 Kenya

## Thank You!!!