

**100 YEARS of QUANTUM
ADVANCEMENTS: Global and
African perspectives**

Report of Contributions

Contribution ID: 3

Type: **not specified**

The ATLAS Inner Tracker Upgrade

Wednesday, 9 July 2025 14:30 (25 minutes)

Presenter: Dr LAASSIRI, Mounia (Brookhaven National Laboratory (US))

Session Classification: Quantum Pulse of Particle Physics

Contribution ID: 4

Type: **not specified**

The 4th African Conference of Physics and the African Strategy Symposium

Wednesday, 9 July 2025 14:55 (25 minutes)

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

Session Classification: Quantum Pulse of Particle Physics

Contribution ID: 8

Type: **not specified**

Compact cost-effective electron accelerators for multi-disciplinary applications

Wednesday, 9 July 2025 10:50 (25 minutes)

Presenter: Prof. MOSTACCI, Andrea (Sapienza University of Rome e INFN-Roma I (IT))

Session Classification: Quantum Infrastructure for Africa

Contribution ID: 9

Type: **not specified**

Particle accelerators physics in Africa, present and future: what opportunity for Morocco?

Wednesday, 9 July 2025 10:00 (25 minutes)

Presenter: Dr SAMSAM, Sanae (INFN Milano)

Session Classification: Quantum Infrastructure for Africa

Contribution ID: **10**

Type: **not specified**

Status of European Compact Light Sources: perspective for a CLS in Morocco Bridging to South-Europe

Wednesday, 9 July 2025 10:25 (25 minutes)

Presenter: Prof. SERAFINI, Luca (INFN-Milan)

Session Classification: Quantum Infrastructure for Africa

Contribution ID: **11**

Type: **not specified**

Roundtable and Closing remarks

Wednesday, 9 July 2025 16:50 (40 minutes)

Contribution ID: **18**

Type: **not specified**

Registration and welcome address

Wednesday, 9 July 2025 08:00 (1 hour)

Contribution ID: 19

Type: **not specified**

Morocco and Africa at the Heart of Quantum Science and Global Networks

Wednesday, 9 July 2025 09:00 (25 minutes)

Presenter: BTISSAM DRISSI, Lalla (Mohammed V University, Morocco)

Session Classification: Quantum Horizons Toward Morocco's Strategic Leadership

Contribution ID: 20

Type: **not specified**

How an African Quantum Internet can facilitate African Industrialization and Morocco can Lead the Wave

Wednesday, 9 July 2025 09:25 (25 minutes)

Presenter: DOMONEY, Frank (Anglia Maghreb Quantum cities, United Kingdom)

Session Classification: Quantum Horizons Toward Morocco's Strategic Leadership

Contribution ID: 23

Type: **not specified**

The invisible engine: How Quantum physics powers technology

Wednesday, 9 July 2025 11:50 (20 minutes)

Presenter: KHENFOUCH, Mohammed (Applied Sciences Fac, Ait Melloul, Agadir, Morocco)

Session Classification: Quantum Physics in Modern Technology

Contribution ID: 24

Type: **not specified**

Quantum transport in nanostructures: From tunneling to transistors

Wednesday, 9 July 2025 12:10 (20 minutes)

Presenter: EL YADRI, Mohamed (ENSAM, Rabat, Morocco)

Session Classification: Quantum Physics in Modern Technology

Contribution ID: 27

Type: **not specified**

Exploitation of Quantum noise to realize a quantum image cryptography protocole

Wednesday, 9 July 2025 12:40 (20 minutes)

Presenter: RFIFI, Saad (Fac Polydisciplinary, Larache, Morocco)

Session Classification: Frontiers in Quantum Information

Contribution ID: 28

Type: **not specified**

Quantum Echoes: Quantum confinement and Stark Tuning in Quantum dots

Wednesday, 9 July 2025 15:55 (20 minutes)

Presenter: OUARRAD, Hala (LPHE-MS, Fac of Sciences in Rabat, Morocco)

Session Classification: Quantum Materials and AI at the Nanoscale

Contribution ID: 29

Type: **not specified**

Predicting the band gap in antimoine from experiments and Artificial Intelligence

Wednesday, 9 July 2025 16:15 (20 minutes)

Presenter: TARBI, Amal (Ecole Supérieure de Technologie, Kenitra, Morocco)

Session Classification: Quantum Materials and AI at the Nanoscale

Contribution ID: **30**

Type: **not specified**

DisCoCirc for Quantum Natural Language Processing

Wednesday, 9 July 2025 15:30 (25 minutes)

Presenter: MOUMOU, Ouissal (Quantinum, United Kingdom)

Session Classification: Quantum Materials and AI at the Nanoscale

Contribution ID: 31

Type: **not specified**

From Fragmentation to Frontline: Uniting Africa's Leadership to Secure Quantum Future

Wednesday, 9 July 2025 13:00 (20 minutes)

Presenter: MAZHANDU, Farai (Oklahoma School of Science and Mathematica, USA)

Session Classification: Frontiers in Quantum Information