

Honoring 100 Years of Quantum Advancements — a global and African perspectives

- mercredi 9 juil. 2025, 09:00 → 18:00 Africa/Casablanca
- Académie Hassan II, Rabat, Morocco
- Lalla Btissam Drissi (Mohammed V University, Morocco)

Description

This international conference marks 100 years since the birth of quantum mechanics; it brings together leading scientists and emerging researchers to reflect on the evolution of quantum physics —from the early breakthroughs of Planck, Einstein and Schrodinger to the modern frontier of quantum technologies, accelerators and quantum information science. The conference will cover 4 major themes:

1. Compact particle accelerators and light sources
2. African physics on the global stage
3. Quantum physics in modern technology
4. Frontiers in quantum information

The gathering will also highlights Africa's growing role in global scientific development and its strategic position in shaping the next century of quantum innovation.



ASP Online Seminars

□ Veuillez vous connecter



09:00	→ 09:15	Welcome address	15m
09:15	→ 09:30	Keynote address — From Bohr to Qubits: The Evolution of Quantum Thought	15m
Orateur: Prof. Lalla Btissam Drissi (Mohammed V University, Morocco)			
09:30	→ 11:00	Development of a compact research infrastructure in Morocco based on a Compact Light Source	
09:30		Compact cost-effective electron accelerators for multi-disciplinary applications	25m
Orateur: Prof. Andrea Mostacci (Sapienza University of Rome e INFN-Roma I (IT))			
10:00		Particle accelerators physics in Africa, present and future: what opportunity for Morocco?	25m
Orateur: Dr Sanae Samsam (INFN Milano)			
10:30		Status of European Compact Light Sources: perspective for a CLS in Morocco Bridging to South-Europe	25m
Orateur: Prof. Luca Serafini (INFN-Milan)			
11:00	→ 11:15	Discussion	15m
11:15	→ 11:30	Break	15m
11:30	→ 12:30	African Physics on the Global Stage	
11:30		The ATLAS Inner Tracker Upgrade	25m
Orateur: Dr Mounia Laassiri (Brookhaven National Laboratory (US))			
12:00		The 4th African Conference of Physics and the African Strategy Symposium	25m
Orateur: Dr Ketevi Adikle Assamagan (Brookhaven National Laboratory (US))			

12:30

→ 12:45

Discussion 15m

12:45

→ 14:00

Lunch 1h 15m

14:00

→ 15:30

Quantum Physics in Modern Technology

14:00

The invisible engine: How Quantum physics powers technology 25m

Orateur: Prof. Mohammed Khanfouch (Applied Sciences Fac, Ait Melloul, Agadir, Morocco)

14:30

TDB 25m

Orateur: Prof. Hala Ouarrad (Fac of Sciences in Rabat, Morocco)

15:00

Quantum transport in nanostructures: From tunneling to transistors 25m

Orateur: Mohammed El Yadri (ENSAM, Rabat, Morocco)

15:30

→ 15:45

Discussion 15m

15:45

→ 17:00

Frontiers in Quantum Information

15:45

TBA: Quantum Neural Networks 20m

Orateur: Prof. Mohammed Bannai (MohFac of Sciences Ben M'Sick, Casablanca, Morocco)

16:10

Quantum correlations 20m

Orateur: Mostafa Mansour (MosFac of Sciences Ain Chock, Casablanca, Morocco)

16:35

TBA: Quantum image cryptography 20m

Orateur: Prof. Saad Rfifi (Fac Polydisciplinary, Larache, Morocco)

17:00	→ 17:15	Discussion	15m
17:15	→ 18:00	Roundtable and closing ceremony	45m