

ASP2024—Scientific Program of the 8th African School of Physics



Report of Contributions

Contribution ID: 1

Type: **not specified**

Orientation

Sunday, 7 July 2024 09:00 (8 hours)

Contribution ID: 2

Type: **not specified**

Fundamental physics research in Morocco

Monday, 8 July 2024 09:30 (40 minutes)

Presenter: HOUMMADA, Abdeslam (Universite Hassan II, Ain Chock (MA))

Session Classification: Physics research in Morocco

Contribution ID: 3

Type: **not specified**

Applied physics research in Morocco, with renewable energies as a prototype

Monday, 8 July 2024 10:15 (40 minutes)

Presenter: BENNOUNA, Amin (Cadi Ayyad University, Morocco)

Session Classification: Physics research in Morocco

Contribution ID: 4

Type: **not specified**

The Standard Model of particle physics

Monday, 8 July 2024 11:30 (1h 30m)

Presenter: Prof. BENBRIK, Rachid (Cadi Ayyad University, Morocco)

Session Classification: High Energy Physics

Contribution ID: 5

Type: **not specified**

Fundamentals of Statistical Analysis in Physics

Monday, 8 July 2024 14:30 (1h 30m)

Presenter: COUSINS JR, Robert (University of California Los Angeles (US))

Session Classification: Statistics

Contribution ID: 6

Type: **not specified**

Accelerators

Contribution ID: 7

Type: **not specified**

Basics of accelerator physics

Monday, 8 July 2024 16:30 (2 hours)

Presenter: BADGLEY, Karie (Fermilab)

Session Classification: Accelerators

Contribution ID: 8

Type: **not specified**

SOAPHYS (West African Physical Society)

Monday, 8 July 2024 18:30 (1h 30m)

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

Session Classification: Evening news

Contribution ID: 9

Type: **not specified**

The African Academy of Sciences (AAS)

Tuesday, 9 July 2024 09:00 (25 minutes)

Presenter: OTI-BOATENG, Peggy (The African Academy of Sciences, AAS)

Session Classification: Morning news

Contribution ID: **10**

Type: **not specified**

Physics for sustainable development

Tuesday, 9 July 2024 09:30 (40 minutes)

Presenter: MURONGA, Azwinndini (Nelson Mandela University, South Africa)

Session Classification: Sustainable development

Contribution ID: **11**

Type: **not specified**

IAEA

Tuesday, 9 July 2024 10:15 (40 minutes)

Presenter: MOKTAR, Najat (IAEA)

Session Classification: Sustainable development

Contribution ID: 12

Type: **not specified**

Fundamentals of Statistical Analysis in Physics

Tuesday, 9 July 2024 11:30 (1h 30m)

Presenter: COUSINS JR, Robert (University of California Los Angeles (US))

Session Classification: Statistics

Contribution ID: 13

Type: **not specified**

Particle interactions with matter

Tuesday, 9 July 2024 14:30 (1h 30m)

Presenter: GOERLACH, Ulrich (Centre National de la Recherche Scientifique (FR))

Session Classification: Particle interactions

Contribution ID: 14

Type: **not specified**

Fundamentals of detectors

Tuesday, 9 July 2024 16:30 (2 hours)

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

Session Classification: Detectors

Contribution ID: 15

Type: **not specified**

Pan-African physics society, status, challenges and path forward

Tuesday, 9 July 2024 18:30 (1 hour)

Presenter: MURONGA, Azwinndini (Nelson Mandela University)

Session Classification: Evening news

Contribution ID: 16

Type: **not specified**

Department of Energy International Outreach

Wednesday, 10 July 2024 09:00 (25 minutes)

Presenter: SMITH, Jacqueline (DOE)

Session Classification: Morning news

Contribution ID: 17

Type: **not specified**

Standard Model of astrophysics & cosmology

Wednesday, 10 July 2024 09:30 (1h 30m)

Presenter: Prof. MIMOUNI, Jamal (University Mentouri Constantine1, Algeria)

Session Classification: Astrophysics and cosmology

Contribution ID: **18**

Type: **not specified**

Basics of accelerator physics

Wednesday, 10 July 2024 11:30 (1h 30m)

Presenter: BADGLEY, Karie (Fermilab)

Session Classification: Accelerators

Contribution ID: 19

Type: **not specified**

Fundamentals of detectors

Wednesday, 10 July 2024 14:30 (1h 30m)

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

Session Classification: Detectors

Contribution ID: 20

Type: **not specified**

Advanced detectors & instrumentation

Wednesday, 10 July 2024 16:30 (2 hours)

Presenter: GOERLACH, Ulrich (Centre National de la Recherche Scientifique (FR))

Session Classification: Detectors

Contribution ID: 21

Type: **not specified**

Linux tutorial

Wednesday, 10 July 2024 16:30 (2 hours)

Presenter: JEDRA, Mohamed (Mohamed V University, Morocco, retired)

Session Classification: Tools

Contribution ID: 22

Type: **not specified**

Arab Physical Society

Wednesday, 10 July 2024 18:30 (1h 30m)

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

Session Classification: Evening news

Contribution ID: 23

Type: **not specified**

African Strategy for Fundamental Applied Physics (ASFAP)

Thursday, 11 July 2024 09:00 (25 minutes)

Presenter: Prof. FASSI, Farida (Universite Mohammed V (MA))

Session Classification: Morning news

Contribution ID: 24

Type: **not specified**

Fundamentals of Statistical Analysis in Physics

Thursday, 11 July 2024 09:30 (1h 30m)

Presenter: COUSINS JR, Robert (University of California Los Angeles (US))

Session Classification: Statistics

Contribution ID: 25

Type: **not specified**

Linux tutorial

Thursday, 11 July 2024 11:30 (1h 30m)

Presenter: JEDRA, Mohamed (Mohamed V University, Morocco, retired)

Session Classification: Tools

Contribution ID: 26

Type: **not specified**

Optics & photonics

Thursday, 11 July 2024 14:30 (1h 30m)

Presenter: FORBES, Andrew (University of the Witwatersrand, South Africa)

Session Classification: Laser physics

Contribution ID: 27

Type: **not specified**

Event generation & detector simulation

Thursday, 11 July 2024 14:30 (1h 30m)

Presenter: LAASSIRI, Mounia (Brookhaven National Laboratory)

Session Classification: Simulation

Contribution ID: 28

Type: **not specified**

Event generation & detector simulation

Thursday, 11 July 2024 16:30 (2 hours)

Presenter: LAASSIRI, Mounia (Brookhaven National Laboratory)

Session Classification: Simulation

Contribution ID: 29

Type: **not specified**

Fluid and plasma physics

Thursday, 11 July 2024 16:30 (2 hours)

Presenter: MAKINDE, Oluwole Daniel (Stellenbosch University, South Africa)

Session Classification: Plasma physics

Contribution ID: **30**

Type: **not specified**

The Square Kilometer Array (SKA)

Thursday, 11 July 2024 18:30 (1h 30m)

Presenter: BOURKE, Tyler (SKAO)

Session Classification: Evening news

Contribution ID: **31**

Type: **not specified**

NASAC

Friday, 12 July 2024 09:00 (25 minutes)

Presenter: CHERKAOUI, Rajaa (Universite Mohammed V (MA))

Session Classification: Morning news

Contribution ID: **32**

Type: **not specified**

Open Science

Friday, 12 July 2024 09:30 (1h 30m)

Presenter: NIELSEN, Lars Holm (CERN)

Session Classification: Open Science

Contribution ID: 33

Type: **not specified**

Flavor physics

Friday, 12 July 2024 11:30 (1h 30m)

Presenter: CAMPANELLI, Mario (UCL)

Session Classification: High Energy Physics

Contribution ID: **34**

Type: **not specified**

Atomic and molecular physics

Friday, 12 July 2024 09:30 (1h 30m)

Presenter: ABAH, Obinna (Newcastle University, United Kingdom)

Session Classification: Materials Physics

Contribution ID: 35

Type: **not specified**

Beyond the Standard Model of particle physics

Thursday, 11 July 2024 11:30 (1h 30m)

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

Session Classification: High Energy Physics

Contribution ID: 36

Type: **not specified**

Event generation & detector simulation

Presenter: LAASSIRI, Mounia (Brookhaven National Laboratory)

Session Classification: Simulation

Contribution ID: 37

Type: **not specified**

Fundamentals of biophysics

Friday, 12 July 2024 14:30 (1h 30m)

Presenter: KRÜGER, Tjaart (University of Pretoria, South Africa)

Session Classification: biophysics

Contribution ID: **38**

Type: **not specified**

Event generation & detector simulation

Presenter: LAASSIRI, Mounia (Brookhaven National Laboratory)

Session Classification: Simulation

Contribution ID: 39

Type: **not specified**

Air quality research

Friday, 12 July 2024 18:30 (1h 30m)

Presenter: Dr TCHANCHE, Bertrand (Alioune Diop University)

Session Classification: Air quality

Contribution ID: 40

Type: **not specified**

Panel discuss: "The road to critical skills development for Africa's growth"

Panelists:

- Rajaa Cherkaoui (Mohammed V University, for the AAS)
- Pr. Jamila EL ALAMI (Director of the CNRST) or Pr. Fatima-Zohra Iflahen (Cadi Ayyad University)
- Hicham Benfeddoul: Director, Division of Studies, Research, and Support for Council Bodies
- Hamid Bouabid: Director of Scientific Research and Innovation at the Ministry of Higher Education
- Norbert Hounkonnou (Benin)
- Raissa Malu (Investing in People, RDC)
- Michel Spiro (IUPAP)

Presenter: WHITE, Herman (Fermilab)

Session Classification: ASP Forum

Contribution ID: 41

Type: **not specified**

African school of Physics (ASP) —Alignment, sustainability & impact

Presenter: LAASSIRI, Mounia (Brookhaven National Laboratory)

Session Classification: ASP Forum

Contribution ID: 42

Type: **not specified**

Feedback from an ASP alumna

Presenter: Dr SAMSAM, Sanae (INFN Milano)

Session Classification: ASP Forum

Contribution ID: 43

Type: **not specified**

Towards ASP2026 in Kenya

Presenters: NYONGESA, Francis (University of Nairobi, Kenya); ODARI, Victor (MMUST, Kenya)

Session Classification: ASP Forum

Contribution ID: 44

Type: **not specified**

The Long Crisis of Black Masculinity in Racial Capitalism

Abstract:

In this talk, I explore labor narratives and imaginaries of Black masculinity to explore how racialized ideals of manhood shifted in response to changing capitalist regimes. Complemented by an analysis of Black masculinity vis-à-vis capitalist processes of production, consumption, and commodification, I examine colonialism to the period known as *la crise* (the crisis) as a narrative arc in Abidjan, Côte d'Ivoire. I draw on my fieldwork examining the livelihoods and lifestyles of under-employed Abidjanais men to illuminate the sustained power of imaginaries even while capitalism affords a deficit of real opportunities.

Bio: Dr. Matlon is an urban sociologist and scholar of race and colonial legacies in Africa and the African diaspora. Her scholarship interrogates the ways “Blackness” operates as a signifier, intersects with gender norms, manifests in popular culture, and illuminates our understanding of political economy. Her multiple award-winning book, *A Man among Other Men: The Crisis of Black Masculinity in Racial Capitalism* (Cornell University Press) investigates the relationship between masculinity, work, and globalization in Abidjan, Côte d'Ivoire. Her new book, *Blackness as Being: Black Survival in the Age of Climate Catastrophe* (under contract, Polity Press), bridges literatures on surplus populations, climate change, and racial capitalism to theorize the possibilities and precariousness of species-survival in the Anthropocene. It offers Blackness as an analytic to think with the paradox of precarious possibility –of past and present modalities of survival and of futures alternatively devastating or liberatory.

Presenter: MATLON, Jordanna (American University, USA)

Session Classification: ASP Forum

Contribution ID: 45

Type: **not specified**

Académie Hassan II —vision & plan

Presenter: FASSI FEHRI, Omar (Permanent secretary of the Hassan II Academy of Science and Technology, Morocco)

Session Classification: ASP Forum

Contribution ID: 46

Type: **not specified**

RAWISE

Presenter: CYULINYANA, Marie Chantal (University of Rwanda)

Session Classification: ASP Forum

Contribution ID: 47

Type: **not specified**

Elimisha Msichana Elimisha Jamii an Astronomia

Presenter: ALANGO, Tabitha (Maasai Mara University, Department of Mathematics and Physical Sciences)

Session Classification: ASP Forum

Contribution ID: 48

Type: **not specified**

Science Advocacy for the Youth

Presenter: NKUITE, Harris Sop (Exeter University, UK)

Session Classification: ASP Forum

Contribution ID: 49

Type: **not specified**

Genius in Africa

Presenter: FAJEMISIN, Jesutofunmi (University of South Florida, USA)

Session Classification: ASP Forum

Contribution ID: 50

Type: **not specified**

Panel discussion: integration, coordination, resources sharing, support & sustainability of outreach efforts

Panelists:

- Marie-Chantal Cyulinyana (University of Rwanda)
- Tabitha Alango (Maasai Mara University, Kenya)
- Harris Sop Nkuite (University Exeter, UK)
- Jesutofunmi Fajemisin (University of South Florida, USA)

Presenter: WHITE, Herman

Session Classification: ASP Forum

Contribution ID: 51

Type: **not specified**

Light sources & applications

Monday, 15 July 2024 09:30 (1h 30m)

Presenter: BISCARI, Caterina (CELLS (ES))

Session Classification: Light sources

Contribution ID: 52

Type: **not specified**

Introduction to quantum computing

Monday, 15 July 2024 09:30 (1h 30m)

Presenter: TELMINI, Mourad (Tunis El Manar, Tunisia)

Session Classification: Quantum computing

Contribution ID: 53

Type: **not specified**

Nuclear reactions

Monday, 15 July 2024 11:30 (1h 30m)

Presenter: PELLEGRINI, Luna (University of the Witwatersrand, South Africa)

Session Classification: Nuclear physics

Contribution ID: 54

Type: **not specified**

Basics of quantum computing

Monday, 15 July 2024 11:30 (1h 30m)

Presenter: TELMINI, Mourad (Tunis El Manar, Tunisia)

Session Classification: Quantum computing

Contribution ID: 55

Type: **not specified**

Hadron dynamics

Monday, 15 July 2024 14:30 (1h 30m)

Presenter: DALTON, Mark (JLab)

Session Classification: Nuclear physics

Contribution ID: 56

Type: **not specified**

Fundamental questions of gravity

Monday, 15 July 2024 14:30 (1h 30m)

Presenter: BAH, Ibrahima (Johns Hopkins University)

Session Classification: Gravity

Contribution ID: 57

Type: **not specified**

Gravitational waves

Monday, 15 July 2024 16:30 (2 hours)

Presenter: COCCIA, Eugenio (IFAE)

Session Classification: Gravity

Contribution ID: 58

Type: **not specified**

Heavy ion physics

Monday, 15 July 2024 16:30 (2 hours)

Presenter: TANG, Aihong (Brookhaven National Laboratory)

Session Classification: Nuclear physics

Contribution ID: 59

Type: **not specified**

Public outreach event in Arabic

Presenter: Mr ABOUABID, Hamza (Université Abdelmalek Essaadi, Morocco)

Session Classification: Evening news

Contribution ID: **60**

Type: **not specified**

ICTP-Africa

Tuesday, 16 July 2024 09:00 (25 minutes)

Presenter: ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))

Session Classification: Morning news

Contribution ID: **61**

Type: **not specified**

Particle physics at colliders

Tuesday, 16 July 2024 09:30 (1h 30m)

Presenter: CHARLTON, Dave (University of Birmingham (GB))

Session Classification: High Energy Physics

Contribution ID: 62

Type: **not specified**

Particle physics at colliders

Tuesday, 16 July 2024 11:30 (1h 30m)

Presenter: CHARLTON, Dave (University of Birmingham (GB))

Session Classification: High Energy Physics

Contribution ID: **63**

Type: **not specified**

Nanoscience

Tuesday, 16 July 2024 14:30 (1h 30m)

Presenter: YITAMBEN, Esmeralda

Session Classification: Nanoscience

Contribution ID: 64

Type: **not specified**

Mathématique financière

Presenter: TÉKOUTÉ, Gilbert (Executive Management School (EMPS), France)

Session Classification: Mathematics in economics

Contribution ID: 65

Type: **not specified**

Africa and the Electron Ion Collider (EIC)

Wednesday, 17 July 2024 09:00 (25 minutes)

Presenter: MULILO, Benard (University of Zambia)

Session Classification: Morning news

Contribution ID: **66**

Type: **not specified**

Advanced accelerator concepts

Wednesday, 17 July 2024 09:30 (1h 30m)

Presenter: FERRARIO, Massimo (INFN-INF)

Session Classification: Accelerators

Contribution ID: 67

Type: **not specified**

Machine learning and Artificial intelligence

Wednesday, 17 July 2024 09:30 (1h 30m)

Presenter: GONSKI, Julia Lynne (SLAC National Accelerator Laboratory (US))

Session Classification: ML / AI

Contribution ID: **68**

Type: **not specified**

Machine learning and Artificial intelligence

Wednesday, 17 July 2024 11:30 (1h 30m)

Presenter: GONSKI, Julia Lynne (SLAC National Accelerator Laboratory (US))

Session Classification: ML / AI

Contribution ID: **69**

Type: **not specified**

Dark matter searches

Wednesday, 17 July 2024 14:30 (1h 30m)

Presenter: MOHLABENG, Gopolang (Simon Fraser University, Canada)

Session Classification: Dark sector states

Contribution ID: 70

Type: **not specified**

Radiation Sources - FEL's, ICS, and Photo-Muons

Wednesday, 17 July 2024 16:30 (2 hours)

Presenter: SERAFINI, Luca (INFN-Milan)

Session Classification: Light sources

Contribution ID: 71

Type: **not specified**

Mathématique financière

Presenter: TÉKOUTÉ, Gilbert (Executive Management School (EMPS), France)

Session Classification: Mathematics in economics

Contribution ID: 72

Type: **not specified**

CERN-Africa programs

Thursday, 18 July 2024 09:00 (25 minutes)

Presenter: TSESMELIS, Emmanuel (CERN)

Session Classification: Morning news

Contribution ID: 73

Type: **not specified**

Radiation measurements and dosimetry:

Thursday, 18 July 2024 09:30 (1h 30m)

- Brief historical introduction
- Directly and indirectly ionizing radiation, radioactivity, natural exposures
- The effects of ionizing radiation, deterministic and stochastic effects
- Radiological quantities and units, physical, protection and operational quantities
- Principles of radiation protection, justification, optimization and dose limitation, the ALARA principle
- Protection means, distance, time, shielding
- External and internal exposures, contamination
- Instrumentation for measuring photon and neutron radiation, individual monitoring, area monitoring, environmental monitoring

Presenter: SILARI, Marco (Politecnico di Milano (IT))

Session Classification: Medical physics

Contribution ID: 74

Type: **not specified**

Radionuclide production and radiation therapy with particle accelerators

Thursday, 18 July 2024 11:30 (1h 30m)

Very brief historical introduction of particle accelerators and short overview of particle accelerators for medical uses

- Radionuclide production: production routes, production methods, decay equation, decay scheme, nuclear reactions, production rate and cross section, targetry
- Radiation therapy: external radiation therapy, cyber knife, IORT, IMRT, tomotherapy, hadron therapy

Presenter: SILARI, Marco (Politecnico di Milano (IT))

Session Classification: Medical physics

Contribution ID: 75

Type: **not specified**

Dark matter searches

Wednesday, 17 July 2024 11:30 (1h 30m)

Presenter: MOHLABENG, Gopolang (Simon Fraser University, Canada)

Session Classification: Dark sector states

Contribution ID: 76

Type: **not specified**

Applications of Compact Light Sources for X-Ray Technologies

Thursday, 18 July 2024 16:30 (2 hours)

Presenter: SERAFINI, Luca (INFN-Milan)

Session Classification: Light sources

Contribution ID: 77

Type: **not specified**

African Physics Newsletter

Friday, 19 July 2024 09:00 (25 minutes)

Presenter: GLEDHILL, Irvy (U. Witwatersrand, South Africa)

Session Classification: Morning news

Contribution ID: 78

Type: **not specified**

Nuclear energy research and applications

Friday, 19 July 2024 09:30 (1h 30m)

Presenters: KONING, Arjan (IAEA); DENECKE, Melissa (IAEA)

Session Classification: Nuclear physics

Contribution ID: 79

Type: **not specified**

Physics at underground laboratories

Friday, 19 July 2024 11:30 (1h 30m)

Presenter: FERRONI, Fernando (Sapienza Universita e INFN, Roma I (IT))

Session Classification: Underground Laboratories

Contribution ID: **80**

Type: **not specified**

Neutrino physics

Friday, 19 July 2024 14:30 (1h 30m)

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

Session Classification: High Energy Physics

Contribution ID: **81**

Type: **not specified**

High Brightness Electron Beams for Radiation Sources

Friday, 19 July 2024 14:30 (1h 30m)

Presenter: BACCI, Alberto (INFN-Milan)

Session Classification: Light sources

Contribution ID: 82

Type: **not specified**

Applications and Practical Implementations of Advancements in Compact Light Sources for X-ray Technologies

Friday, 19 July 2024 16:30 (2 hours)

Presenters: BACCI, Alberto (INFN-Milan); Dr SAMSAM, Sanae (INFN Milano)

Session Classification: Light sources

Contribution ID: **83**

Type: **not specified**

From Mohammed V University

Monday, 8 July 2024 09:00 (7 minutes)

Presenter: Prof. EL BACHA, Farid (Mohammed V University in Rabat)

Session Classification: Morning news

Contribution ID: **84**

Type: **not specified**

From Cadi Ayyad University

Monday, 8 July 2024 09:07 (7 minutes)

Presenters: Prof. BOUGADIR, Belaid (President of the Cadi Ayyad University); Prof. EL MOUDEN, El Hassan (Dean of the Faculty of Sciences Semlalia)

Session Classification: Morning news

Contribution ID: **85**

Type: **not specified**

From ASP IOC

Monday, 8 July 2024 09:23 (7 minutes)

Session Classification: Morning news

Contribution ID: **86**

Type: **not specified**

Internet of Things

Monday, 15 July 2024 09:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: 87

Type: **not specified**

Internet of Things

Monday, 15 July 2024 11:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **88**

Type: **not specified**

Internet of Things

Monday, 15 July 2024 14:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **89**

Type: **not specified**

Internet of Things

Monday, 15 July 2024 16:30 (2 hours)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: 90

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: **91**

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: 92

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: 93

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: 94

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: 95

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: 96

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: 97

Type: **not specified**

Particle physics workshop

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

Session Classification: Small detector labs

Contribution ID: **98**

Type: **not specified**

Internet of Things

Tuesday, 16 July 2024 09:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: 99

Type: **not specified**

Internet of Things

Tuesday, 16 July 2024 11:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **100**

Type: **not specified**

Internet of Things

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **101**

Type: **not specified**

Internet of Things

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **102**

Type: **not specified**

Internet of Things

Wednesday, 17 July 2024 09:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **103**

Type: **not specified**

Internet of Things

Wednesday, 17 July 2024 11:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **104**

Type: **not specified**

Internet of Things

Wednesday, 17 July 2024 14:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **105**

Type: **not specified**

Internet of Things

Wednesday, 17 July 2024 16:30 (2 hours)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **106**

Type: **not specified**

Internet of Things

Thursday, 18 July 2024 09:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **107**

Type: **not specified**

Internet of Things

Thursday, 18 July 2024 11:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **108**

Type: **not specified**

Internet of Things

Thursday, 18 July 2024 14:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **109**

Type: **not specified**

Internet of Things

Thursday, 18 July 2024 16:30 (2 hours)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **110**

Type: **not specified**

Internet of Things

Friday, 19 July 2024 09:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **111**

Type: **not specified**

Internet of Things

Friday, 19 July 2024 11:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **112**

Type: **not specified**

Internet of Things

Friday, 19 July 2024 14:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: **113**

Type: **not specified**

Internet of Things

Friday, 19 July 2024 16:30 (2 hours)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: 114

Type: **not specified**

The road to critical skills development for Africa's growth

Saturday, 13 July 2024 10:00 (2 hours)

Presenters: PÉNÉ, Crépin B (CAMES Research Director, Côte d'Ivoire); IFLAHEN, Fatima-Zohra (Vice President responsible for Innovation, Research, and Cooperation at Cadi Ayyad University, Morocco); BOUABID, Hamid (Director of Scientific Research and Innovation at the Ministry of Higher Education, Morocco); BENFEDDOUL, Hicham (Director, Division of Studies, Research, and Support for Council Bodies, Morocco); SPIRO, Michel (IUPAP); MALU, Raissa (Investing in People ASBL, DRC); CHERKAOUI, Rajaa (The African Academy of Sciences, AAS)

Session Classification: ASP Forum

Contribution ID: 115

Type: **not specified**

African school of Physics (ASP) —Alignment, sustainability & impact

Saturday, 13 July 2024 12:00 (20 minutes)

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

Session Classification: ASP Forum

Contribution ID: **116**

Type: **not specified**

Feedback from an ASP alumna

Saturday, 13 July 2024 12:25 (15 minutes)

Presenter: Dr SAMSAM, Sanae (INFN Milano)

Session Classification: ASP Forum

Contribution ID: 117

Type: **not specified**

Towards ASP2026 in Kenya

Saturday, 13 July 2024 12:45 (15 minutes)

Presenters: NYONGESA, Francis (University of Nairobi, Kenya); ODARI, Victor (MMUST, Kenya)

Session Classification: ASP Forum

Contribution ID: 118

Type: **not specified**

The Long Crisis of Black Masculinity in Racial Capitalism

Saturday, 13 July 2024 14:15 (40 minutes)

Abstract: In this talk, I explore labor narratives and imaginaries of Black masculinity to explore how racialized ideals of manhood shifted in response to changing capitalist regimes. Complemented by an analysis of Black masculinity vis-à-vis capitalist processes of production, consumption, and commodification, I examine colonialism to the period known as *la crise* (the crisis) as a narrative arc in Abidjan, Côte d'Ivoire. I draw on my fieldwork examining the livelihoods and lifestyles of underemployed Abidjanais men to illuminate the sustained power of imaginaries even while capitalism affords a deficit of real opportunities.

Bio: Dr. Matlon is an urban sociologist and scholar of race and colonial legacies in Africa and the African diaspora. Her scholarship interrogates the ways “Blackness” operates as a signifier, intersects with gender norms, manifests in popular culture, and illuminates our understanding of political economy. Her multiple award-winning book, *A Man among Other Men: The Crisis of Black Masculinity in Racial Capitalism* (Cornell University Press) investigates the relationship between masculinity, work, and globalization in Abidjan, Côte d'Ivoire. Her new book, *Blackness as Being: Black Survival in the Age of Climate Catastrophe* (under contract, Polity Press), bridges literatures on surplus populations, climate change, and racial capitalism to theorize the possibilities and precariousness of species-survival in the Anthropocene. It offers Blackness as an analytic to think with the paradox of precarious possibility –of past and present modalities of survival and of futures alternatively devastating or liberatory.

Presenter: MATLON, Jordanna (American University, USA)

Session Classification: ASP Forum

Contribution ID: **119**

Type: **not specified**

Académie Hassan II —vision & plan

Saturday, 13 July 2024 15:30 (30 minutes)

Presenter: EL HASSANI, Ahmed (Hassan II Academy of Science and Technology, Morocco)

Session Classification: ASP Forum

Contribution ID: **120**

Type: **not specified**

RAWISE

Saturday, 13 July 2024 16:05 (15 minutes)

Presenter: CYULINYANA, Marie Chantal (University of Rwanda)

Session Classification: ASP Forum

Contribution ID: 121

Type: **not specified**

Elimisha Msichana Elimisha Jamii an Astronomia

Saturday, 13 July 2024 16:20 (15 minutes)

Presenter: ALANGO, Tabitha (Maasai Mara University, Kenya)

Session Classification: ASP Forum

Contribution ID: 122

Type: **not specified**

Science Advocacy for the Youth

Saturday, 13 July 2024 16:35 (15 minutes)

Presenter: NKUIATE, Harris Sop (University of Exeter, England, United Kingdom)

Session Classification: ASP Forum

Contribution ID: 123

Type: **not specified**

Genius in Africa

Saturday, 13 July 2024 16:55 (15 minutes)

Presenter: FAJEMISIN, Jesutofunmi (University of South Florida, USA)

Session Classification: ASP Forum

Contribution ID: 124

Type: **not specified**

integration, coordination, resources sharing, support & sustainability

Saturday, 13 July 2024 17:05 (50 minutes)

Presenters: NKUIATE, Harris Sop (University of Exeter, England, United Kingdom); FAJEMISIN, Jesutofunmi (University of South Florida, USA); CYULINYANA, Marie Chantal (University of Rwanda); ALANGO, Tabitha (Maasai Mara University, Kenya)

Session Classification: ASP Forum

Contribution ID: 125

Type: **not specified**

From Mohammed V University

Session Classification: Closing ceremony

Contribution ID: 126

Type: **not specified**

From Cadi Ayyad University

Session Classification: Closing ceremony

Contribution ID: 127

Type: **not specified**

From the ASP2024 LOC

Session Classification: Closing ceremony

Contribution ID: **128**

Type: **not specified**

From the IOC

Session Classification: Closing ceremony

Contribution ID: **129**

Type: **not specified**

Particle physics at colliders

Tuesday, 16 July 2024 14:30 (1h 30m)

Presenter: CHARLTON, Dave (University of Birmingham (GB))

Session Classification: High Energy Physics

Contribution ID: 130

Type: **not specified**

The use of radiations in medical imaging and the treatment of patients

Friday, 19 July 2024 11:30 (1h 30m)

Presenter: SEBIHI, Rajaa (MOhammed V University, Morocco)

Session Classification: Medical physics

Contribution ID: **131**

Type: **not specified**

Radioactivity, X-rays and radiation protection

Thursday, 18 July 2024 14:30 (1h 30m)

Presenter: SEBIHI, Rajaa (MOhammed V University, Morocco)

Session Classification: Medical physics

Contribution ID: 132

Type: **not specified**

Fundamentals of Condensed Matter & Materials Physics

Presenter: ZAARI, Halima (Mohammed V Univeristy, Morocco)

Session Classification: Materials Physics

Contribution ID: 133

Type: **not specified**

Vote of Thanks

Saturday, 13 July 2024 17:55 (5 minutes)

Presenter: Prof. FASSI, Farida (Universite Mohammed V (MA))

Contribution ID: 134

Type: **not specified**

Photovoltaic research

Wednesday, 17 July 2024 09:30 (1h 30m)

Presenter: DIALE, Mmantsae (University of Pretoria, South Africa)

Session Classification: Renewable energies

Contribution ID: 135

Type: **not specified**

Molecular dynamics simulations of hard and soft matter

Tuesday, 16 July 2024 09:30 (1h 30m)

Computational procedure and applications

Presenters: SPOHR, Eckhard (University of Duisburg-Essen, Germany); KENMOE, Stéphane (University of Duisburg-Essen, Germany)

Session Classification: Materials Physics

Contribution ID: 136

Type: **not specified**

From the Director of ICTP

Monday, 8 July 2024 09:14 (2 minutes)

Session Classification: Morning news

Contribution ID: 137

Type: **not specified**

Computation physics: Simulation and modeling

Tuesday, 16 July 2024 11:30 (1h 30m)

Presenter: ODARI, Victor (MMUST, Kenya)

Session Classification: Materials Physics

Contribution ID: 138

Type: **not specified**

Theoretical and practical frontiers of advanced matter

Presenter: DRISSI, Lalla Btissam (Mohammed V Univeristy, Morocco)

Session Classification: Materials Physics

Contribution ID: **139**

Type: **not specified**

From the ASP2024 LOC

Monday, 8 July 2024 09:16 (7 minutes)

Presenter: Dr CHABAB, Mohamed (Cadi Ayyad University (MA))

Session Classification: Morning news

Contribution ID: 140

Type: **not specified**

Fundamentals of Condensed Matter & Materials Physics

Friday, 12 July 2024 11:30 (1h 30m)

Presenter: ZAARI, Halima (Mohammed V Univeristy, Morocco)

Session Classification: Fundamentals of Condensed Matter & Materials Physics

Contribution ID: **141**

Type: **not specified**

Internet of Things

Friday, 12 July 2024 14:30 (1h 30m)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: 142

Type: **not specified**

Internet of Things

Friday, 12 July 2024 16:30 (2 hours)

Presenter: RAICH, Uli (retired)

Session Classification: Small detector labs

Contribution ID: 143

Type: **not specified**

Fundamental Physics in Morocco

Monday, 15 July 2024 18:40 (10 minutes)

Presenter: HOUMMADA, Abdeslam (Universite Hassan II, Ain Chock (MA))

Session Classification: Topical sessions

Contribution ID: 144

Type: **not specified**

Fundamental Physics in Algeria

Monday, 15 July 2024 18:50 (10 minutes)

Presenter: REDOUANE SALAH, Essma (University of M'sila)

Session Classification: Topical sessions

Contribution ID: 145

Type: **not specified**

Fundamental Physics in Tunisia

Monday, 15 July 2024 19:00 (10 minutes)

Presenter: TELMINI, Mourad

Session Classification: Topical sessions

Contribution ID: 146

Type: **not specified**

Fundamental Physics in Egypt

Monday, 15 July 2024 19:10 (10 minutes)

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

Session Classification: Topical sessions

Contribution ID: 147

Type: **not specified**

Welcome & intro of session

Monday, 15 July 2024 18:30 (5 minutes)

Primary author: LAASSIRI, Mounia (Brookhaven National Laboratory)

Presenter: LAASSIRI, Mounia (Brookhaven National Laboratory)

Session Classification: Topical sessions

Contribution ID: 148

Type: **not specified**

Overview of resources

Monday, 15 July 2024 18:35 (5 minutes)

Presenter: GONSKI, Julia Lynne (SLAC National Accelerator Laboratory (US))

Session Classification: Topical sessions

Contribution ID: 149

Type: **not specified**

Panel/ Brainstorming

Monday, 15 July 2024 19:20 (30 minutes)

Presenters: HOUMMADA, Abdeslam (Universite Hassan II, Ain Chock (MA)); SHAMSELDEEN ALI ALHASSAN, Amel; REDOUANE SALAH, Essma (University of M'sila); SMITH, Jacqueline (DOE); Dr SHAW, Kate (University of Sussex (GB)); TELMINI, Mourad; Prof. KHALIL IBRAHIM, Shaaban (ENHEP Egyptian Network of High Energy Physics (EG))

Session Classification: Topical sessions

Contribution ID: 150

Type: **not specified**

The South African Institute of Physics (SAIP)

Monday, 15 July 2024 09:00 (25 minutes)

Presenter: MASARA, Brian (South African Institute of Physics)

Session Classification: Morning news

Contribution ID: 151

Type: **not specified**

Physics' multidisciplinary and its contributions towards the SDGs & Climate recovery

Thursday, 18 July 2024 18:30 (1 hour)

Presenter: MAAZA, Malik (iThemba LABS, South Africa)

Session Classification: Evening news

Contribution ID: **152**

Type: **not specified**

Group 1

Friday, 19 July 2024 18:35 (5 minutes)

Presenters: AHMED, Abdalkarim; PIERE-LOUIS, Allen; OKONGO, Camilla; DIOUF, Cheikh Tidiane; SAMBIANI, DAMERGARIN; NDANG AMASSA, Kevin; GONTLAFETSE, Nametso; BOUDRAHAM, SALIMA; TARIQ, Safae; BOUKACHABIA, Samira; FOUKHARI, Youness

Session Classification: Evening news

Contribution ID: **153**

Type: **not specified**

Introduction

Friday, 19 July 2024 18:30 (5 minutes)

Session Classification: Evening news

Contribution ID: 154

Type: **not specified**

Group 2

Friday, 19 July 2024 18:40 (5 minutes)

Presenters: CHAKRI, Achraf; AMOUZOU-ATCHOE, Akoua Gabriella; IFISS, Chakib; BOSSYL'S DE-MABOSSY-MOBOU NA, Glewvise Junior; ZAHIR, IMANE; SHAURI GWAYDI, January; MIFTAH, Mohamed Amine; CHARKAOUI, Mohammed; MLOTSHWA, Muzomuhle; EL OUARDI, Redouane; MANAI, Soumaya; EL GHAZI, YASSIR; ACHOUNDONG, charlotte

Session Classification: Evening news

Contribution ID: 155

Type: **not specified**

Group 3

Friday, 19 July 2024 18:45 (5 minutes)

Presenters: BELLAGROUDI, Ahmed; BAKR, Ahmed; IMAM, Asad; MAHORO, Esther; WEKESA, Franklyne; MAGERE, Irene; CHAREF, KHADIJA; KGWATALALA, Lister Vivian; AMGHAR, M'bark; IKKEN, Nada; CHRISTIAN, Pombili Maano

Session Classification: Evening news

Contribution ID: 156

Type: **not specified**

Group 4

Friday, 19 July 2024 18:50 (5 minutes)

Presenters: EL JAOUHARI, Ayoub; NTSWARITAGANZWA, Denys; SINGH, Eishan; OTI, James Acheamf; IMANE, LAAROUSSI; KHAIRI, MERYEM; DIOP, Mohamed; CHAWKI, Najwa; JANDURA, Precious; AHMED ABDEL LATEEF, Rowa Mudathir; KABRANE, Soukaina; DEBELE, Yosen Jembola

Session Classification: Evening news

Contribution ID: 157

Type: **not specified**

Group 5

Friday, 19 July 2024 18:55 (5 minutes)

Presenters: ALSAYEGH, Abdullah; OUAHHABI, Ayoub; AKENOUN, Boutaina; MALIKA, EL ASLANI; LEKBICH, Hicham; RAMBELOSON, Koloina Razafinj; MUTHAMA, Matsitsi; HLOPHE, Nduduzo; OMOTUNDE, Samuel Segun; DIAW, Sory; MHLEBI, VUYOLWETHU

Session Classification: Evening news

Contribution ID: **158**

Type: **not specified**

Group 6

Friday, 19 July 2024 19:00 (5 minutes)

Presenters: BEZZAZ, Alae addin; ELKHODARY, Asmaa; ADEM, Deresse Ahmed; ASSIA, EL KAF-TAOUI; AHLAF, FATIMA ZAHRA; DHIF, Fatma Ezzahra; TIEPMA, KATRIONA DIMA; MANQELE, Khulekani; DONKATA, Kossivi Anani; MWIBANDA, Lameck; MTHALANE, Sifiso

Session Classification: Evening news

Contribution ID: **159**

Type: **not specified**

Group 7

Friday, 19 July 2024 19:05 (5 minutes)

Presenters: TAVERAS, Adrian; NGHINYEKWA, Daniel; KIGURU, Esther; MAVIE, Felicia; WANDJA, Guilléne Martiale; LEKBICH, Hicham; MKIMEL, Mohamed; SAMUEL, NIJERIA; NKALAI, NTHATUOA JO; BENJEDI, Radi; SAMMANI, Rajae; ABOUZEID, Salma

Session Classification: Evening news

Contribution ID: **160**

Type: **not specified**

Group 8

Friday, 19 July 2024 19:10 (5 minutes)

Presenters: ZAKARIA, BOUAFIA; NAKAFINGO, Eggscellent; BADO, Fabrice; AZAIRI, Fatima; AN-ZALONE, Gabriella; AKKAOUI, Hafsa; EL GLILI, Issa; EL HIDAOU, Nouhaila; MANIRAGUHA, Obed; DAHMANI, Safae; THAMES, Shereena

Session Classification: Evening news

Contribution ID: **161**

Type: **not specified**

Discussion

Friday, 19 July 2024 19:15 (45 minutes)

Session Classification: Evening news

Contribution ID: **162**

Type: **not specified**

Astroparticles

Thursday, 18 July 2024 16:30 (1h 30m)

Presenter: JACOB DE NAUROIS, Mathieu

Session Classification: Astrophysics and cosmology

Contribution ID: **163**

Type: **not specified**

Cosmology

Tuesday, 16 July 2024 16:30 (1h 30m)

Presenter: JACOB DE NAUROIS, Mathieu

Session Classification: Astrophysics and cosmology

Contribution ID: **164**

Type: **not specified**

Astroparticles

Friday, 19 July 2024 09:30 (1h 30m)

Presenter: JACOB DE NAUROIS, Mathieu

Session Classification: Astrophysics and cosmology