

# **ASP2024—Teachers Program at the 8th African School of Physics**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Teachers' Arrivals

Contribution ID: 2

Type: **not specified**

## Fundamental physics research in Morocco

**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

**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

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

**Session Classification:** High Energy Physics

Contribution ID: 5

Type: **not specified**

## **Fundamentals of Statistical Analysis in Physics**

**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

**Presenter:** BADGLEY, Karie (Fermilab)

**Session Classification:** Accelerators



Contribution ID: 8

Type: **not specified**

## **SOAPHYS (West African Physical Society)**

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

**Session Classification:** Evening news

Contribution ID: 9

Type: **not specified**

## The African Academy of Sciences (AAS)

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

**Session Classification:** Morning news

Contribution ID: 10

Type: **not specified**

## Physics for sustainable development

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

**Session Classification:** Sustainable development

Contribution ID: **11**

Type: **not specified**

**IAEA**

**Presenter:** MOKTAR, Najat (IAEA)

**Session Classification:** Sustainable development

Contribution ID: 12

Type: **not specified**

## Fundamentals of Statistical Analysis in Physics

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

**Session Classification:** Statistics

Contribution ID: 13

Type: **not specified**

## Particle interactions with matter

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

**Session Classification:** Particle interactions

Contribution ID: 14

Type: **not specified**

## Fundamentals of detectors

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

**Session Classification:** Detectors

Contribution ID: 15

Type: **not specified**

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

**Session Classification:** Evening news



Contribution ID: 16

Type: **not specified**

## Department of Energy International Outreach

**Presenter:** SMITH, Jacqueline (DOE)

**Session Classification:** Morning news

Contribution ID: 17

Type: **not specified**

## **Standard Model of astrophysics & cosmology**

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

**Session Classification:** Astrophysics and cosmology

Contribution ID: 18

Type: **not specified**

## Basics of accelerator physics

**Presenter:** BADGLEY, Karie (Fermilab)

**Session Classification:** Accelerators

Contribution ID: 19

Type: **not specified**

## Fundamentals of detectors

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

**Session Classification:** Detectors

Contribution ID: 20

Type: **not specified**

## **Advanced datectors & instrumentation**

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

**Session Classification:** Detectors

Contribution ID: **21**

Type: **not specified**

## **Linux tutorial**

**Session Classification:** Tools

Contribution ID: 22

Type: **not specified**

## Arab Physical Society

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

**Session Classification:** Evening news

Contribution ID: 23

Type: **not specified**

## ASFAP

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

**Session Classification:** Morning news



Contribution ID: 24

Type: **not specified**

## **Fundamentals of Statistical Analysis in Physics**

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

**Session Classification:** Statistics

Contribution ID: 25

Type: **not specified**

## Linux tutorial

**Session Classification:** Tools

Contribution ID: 26

Type: **not specified**

## Optics & photonics

**Session Classification:** Laser physics

Contribution ID: 27

Type: **not specified**

## Event generation & detector simulation

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

**Session Classification:** Simulation

Contribution ID: 28

Type: **not specified**

## Event generation & detector simulation

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

**Session Classification:** Simulation

Contribution ID: 29

Type: **not specified**

## Fluid and plasma physics

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

**Session Classification:** Plasma physics

Contribution ID: **30**

Type: **not specified**

## **The Square Kilometer Array (SKA)**

**Presenter:** BOURKE, Tyler (SKAO)

**Session Classification:** Evening news

Contribution ID: **31**

Type: **not specified**

## NASAC

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

**Session Classification:** Morning news



Contribution ID: 32

Type: **not specified**

## Digital libraries

**Presenter:** Mr VIGEN, Jens (CERN)

**Session Classification:** Libraries

Contribution ID: 33

Type: **not specified**

## Flavor physics

**Presenter:** CAMPANELLI, Mario (UCL)

**Session Classification:** High Energy Physics

Contribution ID: 34

Type: **not specified**

## Atomic and molecular physics

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

**Session Classification:** Materials Physics

Contribution ID: 35

Type: **not specified**

## **Beyond the Standard Model of particle physics**

**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

**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

**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**

**TBD**

**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

**Presenter:** BISCARI, Caterina (CELLS (ES))

**Session Classification:** Light sources

Contribution ID: 52

Type: **not specified**

## Introduction to quantum computing

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

**Session Classification:** Quantum computing

Contribution ID: 53

Type: **not specified**

## Nuclear reactions

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

**Session Classification:** Nuclear physics

Contribution ID: 54

Type: **not specified**

## Basics of quantum computing

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

**Session Classification:** Quantum computing

Contribution ID: 55

Type: **not specified**

## Hadron dynamics

**Presenter:** DALTON, Mark (JLab)

**Session Classification:** Nuclear physics



Contribution ID: **56**

Type: **not specified**

**TBD**

**Presenter:** BAH, Ibrahima (Johns Hopkins University)

**Session Classification:** Gravity

Contribution ID: 57

Type: **not specified**

## Gravitational waves

**Presenter:** COCCIA, Eugenio (IFAE)

**Session Classification:** Gravity

Contribution ID: 58

Type: **not specified**

## Heavy ion physics

**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)

**Session Classification:** Evening news

Contribution ID: **60**

Type: **not specified**

## ICTP-Africa

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

**Session Classification:** Morning news

Contribution ID: **61**

Type: **not specified**

## Particle physics

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

**Session Classification:** High Energy Physics

Contribution ID: **62**

Type: **not specified**

## Particle physics

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

**Session Classification:** High Energy Physics

Contribution ID: **63**

Type: **not specified**

## Nanoscience

**Presenter:** YITAMBEN, Esmeralda

**Session Classification:** Nanoscience



Contribution ID: **64**

Type: **not specified**

## **Mathématique financière**

**Presenter:** TÉKOUTÉ, Gilbert

**Session Classification:** Mathematics in economics

Contribution ID: 65

Type: **not specified**

## **Africa and the Electron Ion Collider (EIC)**

**Presenter:** Mr MULILO, Benard (University of Zambia)

**Session Classification:** Morning news

Contribution ID: 66

Type: **not specified**

## Advanced accelerator concepts

**Presenter:** BISCARI, Caterina (CELLS (ES))

**Session Classification:** Accelerators

Contribution ID: 67

Type: **not specified**

## Machine learning and Artificial intelligence

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

**Session Classification:** ML / AI

Contribution ID: **68**

Type: **not specified**

## **Machine learning and Artificial intelligence**

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

**Session Classification:** ML / AI

Contribution ID: **69**

Type: **not specified**

## Dark matter searches

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

**Session Classification:** Dark sector states

Contribution ID: 70

Type: **not specified**

## Advanced Compton light sources

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

**Presenter:** BACCI, Alberto (INFN-Milan)

**Session Classification:** Light sources

Contribution ID: 71

Type: **not specified**

## Mathématique financière

**Presenter:** TÉKOUTÉ, Gilbert

**Session Classification:** Mathematics in economics



Contribution ID: 72

Type: **not specified**

## **CERN-Africa programs**

**Session Classification:** Morning news

Contribution ID: 73

Type: **not specified**

## Radionuclide production

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

**Session Classification:** Medical physics

Contribution ID: 74

Type: **not specified**

## **Radiation measurements and dosimetry**

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

**Session Classification:** Medical physics

Contribution ID: 75

Type: **not specified**

## Dark matter searches

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

**Session Classification:** Dark sector states

Contribution ID: 76

Type: **not specified**

## Radiation source

Radiation sources - FEL's, ICS and photon-muons

**Session Classification:** Light sources

Contribution ID: 77

Type: **not specified**

## African Physics Newsletter

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

**Session Classification:** Morning news

Contribution ID: 78

Type: **not specified**

## **Nuclear energy research and applications**

**Presenter:** DENECKE, Melissa (IAEA)

**Session Classification:** Nuclear physics

Contribution ID: 79

Type: **not specified**

## Physics at underground laboratories

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

**Session Classification:** Underground Laboratories



Contribution ID: **80**

Type: **not specified**

## Neutrino physics

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

**Session Classification:** High Energy Physics

Contribution ID: **81**

Type: **not specified**

## **Compton light sources for X-ray technologies**

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

**Presenter:** BACCI, Alberto (INFN-Milan)

**Session Classification:** Light sources

Contribution ID: **82**

Type: **not specified**

## Electron Recovery LINAC

ERL's, energy sustainability  
of particle accelerators

**Presenter:** SERAFINI, Luca (INFN-Milan)

**Session Classification:** Light sources

Contribution ID: **83**

Type: **not specified**

## **From Mohammed V University**

**Session Classification:** Morning news

Contribution ID: **84**

Type: **not specified**

## **From Cadi Ayyad University**

**Session Classification:** Morning news

Contribution ID: **85**

Type: **not specified**

## **From ASP IOC**

**Session Classification:** Morning news

Contribution ID: **86**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: 87

Type: **not specified**

## Internet of Things

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs



Contribution ID: **88**

Type: **not specified**

## Internet of Things

*Wednesday, 10 July 2024 13:30 (1h 30m)*

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **89**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **90**

Type: **not specified**

## Particle physics workshop

*Tuesday, 9 July 2024 13:00 (2 hours)*

Introduction to Particle Physics: What do we know?

13:00 Greetings, Introductions, and Remarks

13:15 Shuffling the Particle Deck (Particle Cards)

14:00 Introduction to Standard Model

View this page: <https://cern.ch/asp2024t>

**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

*Friday, 12 July 2024 10:30 (1 hour)*

Introduction to Particle Physics: Mini-Masterclass

10:30 Greetings, Introductions, and Remarks

10:35 Data Analysis Prep

10:45 Short low-p dimuon measurement

11:15 Discussion of Results

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

**Session Classification:** Small detector labs

Contribution ID: 94

Type: **not specified**

## Particle physics workshop

*Wednesday, 10 July 2024 13:30 (1h 30m)*

Introduction to Particle Physics: Experiment

13:30 Greetings, Introductions, and Remarks

13:35 Rolling with Rutherford

14:20 Introduction to Cosmic Ray Detector

14:40 CME Study

**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

*Thursday, 11 July 2024 10:30 (1 hour)*

Introduction to Particle Physics: Data Analysis

10:30 Greetings, Introductions, and Remarks

10:35 Introduction to Cosmic Ray Detector

10:55 Simple Experiment

11:15 CME Study

**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**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: 99

Type: **not specified**

## Internet of Things

*Thursday, 11 July 2024 10:30 (1 hour)*

**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**

*Friday, 12 July 2024 10:30 (1 hour)*

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **102**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **103**

Type: **not specified**

## **Internet of Things**

*Friday, 12 July 2024 12:00 (1 hour)*

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs



Contribution ID: **104**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **105**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **106**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **107**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **108**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **109**

Type: **not specified**

## **Internet of Things**

*Tuesday, 9 July 2024 13:00 (2 hours)*

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **110**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **111**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs



Contribution ID: 112

Type: **not specified**

## Internet of Things

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: **113**

Type: **not specified**

## **Internet of Things**

**Presenter:** RAICH, Uli (retired)

**Session Classification:** Small detector labs

Contribution ID: 114

Type: **not specified**

## **Integration of scientific computing into math and science classes**

**Presenter:** BIRSACH, Dave (Brookhaven National Laboratory)

**Session Classification:** Small detector labs

Contribution ID: 115

Type: **not specified**

## **Integration of scientific computing into math and science classes**

**Presenter:** BIRSACH, Dave (Brookhaven National Laboratory)

**Session Classification:** Small detector labs

Contribution ID: 116

Type: **not specified**

## **Integration of scientific computing into math and science classes**

*Wednesday, 10 July 2024 13:30 (1h 30m)*

**Presenters:** BIRSACH, Dave (Brookhaven National Laboratory); Prof. FASSI, Farida (Universite Mohammed V (MA))

**Session Classification:** Small detector labs

Contribution ID: 117

Type: **not specified**

## **Integration of scientific computing into math and science classes**

**Presenter:** BIRSACH, Dave (Brookhaven National Laboratory)

**Session Classification:** Small detector labs

Contribution ID: **118**

Type: **not specified**

## **Integration of scientific computing into math and science classes**

**Presenter:** BIRSACH, Dave (Brookhaven National Laboratory)

**Session Classification:** Small detector labs

Contribution ID: **119**

Type: **not specified**

## **Integration of scientific computing into math and science classes**

*Thursday, 11 July 2024 10:30 (1 hour)*

**Presenters:** BIRSACH, Dave (Brookhaven National Laboratory); Prof. FASSI, Farida (Universite Mohammed V (MA))

**Session Classification:** Small detector labs



Contribution ID: 120

Type: **not specified**

## **Integration of scientific computing into math and science classes**

**Presenter:** BIRSACH, Dave (Brookhaven National Laboratory)

**Session Classification:** Small detector labs

Contribution ID: 121

Type: **not specified**

## **Integration of scientific computing into math and science classes**

*Friday, 12 July 2024 10:30 (1 hour)*

**Presenters:** BIRSACH, Dave (Brookhaven National Laboratory); Prof. FASSI, Farida (Universite Mohammed V (MA))

**Session Classification:** Small detector labs

Contribution ID: 122

Type: **not specified**

## Particle physics workshop

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

**Session Classification:** Small detector labs

Contribution ID: 123

Type: **not specified**

## **Integration of scientific computing into math and science classes**

**Presenter:** BIRSACH, Dave (Brookhaven National Laboratory)

**Session Classification:** Small detector labs

Contribution ID: 124

Type: **not specified**

## Particle physics workshop

*Friday, 12 July 2024 12:00 (1 hour)*

Wrap-up: Implementation Plans

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

**Session Classification:** Small detector labs

Contribution ID: 125

Type: **not specified**

## **Integration of scientific computing into math and science classes**

*Friday, 12 July 2024 12:00 (1 hour)*

**Presenters:** BIRSACH, Dave (Brookhaven National Laboratory); Prof. FASSI, Farida (Universite Mohammed V (MA))

**Session Classification:** Small detector labs

Contribution ID: 126

Type: **not specified**

## **Integration of scientific computing into math and science classes**

*Tuesday, 9 July 2024 13:00 (2 hours)*

**Presenters:** BIRSACH, Dave (Brookhaven National Laboratory); Prof. FASSI, Farida (Universite Mohammed V (MA))

**Session Classification:** Small detector labs