

ASP2016



African School of Fundamental
Physics and Applications

Report of Contributions

Contribution ID: 1

Type: **not specified**

Recap. of Relativity and Quantum Mechanics plus intro. QFT

Monday 1 August 2016 14:30 (1h 30m)

Presenter: ALEXANDRE, Jean (King's College London)

Session Classification: Theoretical Physics

Contribution ID: 2

Type: **not specified**

Recap of Relativity and Quantum Mechanics plus intro. to QFT

Monday 1 August 2016 11:30 (1h 30m)

Presenter: ALEXANDRE, Jean (King's College London)

Session Classification: Theoretical Physics

Contribution ID: 3

Type: **not specified**

The Standard Model of Particle Physics I

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

Contribution ID: 4

Type: **not specified**

The Standard Model of Particle Physics I

*Monday 1 August 2016 16:30 (1h 30m)***Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))**Session Classification:** Theoretical Physics

Contribution ID: 5

Type: **not specified**

The Standard Model of Particle Physics II

*Tuesday 2 August 2016 09:30 (1h 30m)***Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))**Session Classification:** Theoretical Physics

Contribution ID: 6

Type: **not specified**

Overview lecture on particle physics

Monday 1 August 2016 09:30 (1h 30m)

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

Session Classification: Theoretical Physics

Contribution ID: 7

Type: **not specified**

The Standard Model of Particle Physics III

*Tuesday 2 August 2016 11:30 (1h 30m)***Presenter:** ACHARYA, Bobby Samir (Abdus Salam Int. Cent. Theor. Phys. (IT))**Session Classification:** Theoretical Physics

Contribution ID: **10**

Type: **not specified**

Beyond the Standard Model

Wednesday 3 August 2016 09:30 (1h 30m)

Presenter: ELLIS, John (CERN)

Session Classification: Theoretical Physics

Contribution ID: 13

Type: **not specified**

Cosmology and Astro-Particle Physics I & II

Presenter: DE NAUROIS, Mathieu (CNRS)

Session Classification: Theoretical Physics

Contribution ID: 14

Type: **not specified**

Cosmology and Astro-Particle Physics III & IV - Experiments

Thursday 4 August 2016 11:30 (1h 30m)

Presenter: DE NAUROIS, Mathieu (CNRS)

Session Classification: Theoretical Physics

Contribution ID: 15

Type: **not specified**

Particle-Matter Interactions / Detectors I & II

*Thursday 4 August 2016 09:30 (1h 30m)***Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))**Session Classification:** Theoretical Physics

Contribution ID: 16

Type: **not specified**

Cosmology and Astro-Particle Physics V - Experiments

Thursday 4 August 2016 14:30 (45 minutes)

Presenter: DE NAUROIS, Mathieu (CNRS)

Session Classification: Theoretical Physics

Contribution ID: 17

Type: **not specified**

Tutorial on Monte Carlo Generators

Thursday 4 August 2016 15:15 (45 minutes)

Presenter: SCHOENHERR, Marek (Universitaet Zuerich (CH))

Session Classification: Theoretical Physics

Contribution ID: 19

Type: **not specified**

Particle-Matter Interactions / Detectors III & IV

*Friday 5 August 2016 09:30 (1h 30m)***Presenter:** GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))**Session Classification:** Theoretical Physics

Contribution ID: 20

Type: **not specified**

Particle Identification I & II

Friday 5 August 2016 11:30 (1h 30m)

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

Session Classification: Theoretical Physics

Contribution ID: 21

Type: **not specified**

Particle Identification III

Friday 5 August 2016 14:15 (45 minutes)

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

Session Classification: Theoretical Physics

Contribution ID: 22

Type: **not specified**

Colloquium: Particle Physics Perspective from Theory

Friday 5 August 2016 16:30 (45 minutes)

Presenter: ELLIS, John (CERN)

Session Classification: Theoretical Physics

Contribution ID: 23

Type: **not specified**

Web link to ICHEP2016 in Chicago

Presenters: ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); KIM, Young-Kee (University of Chicago (US))

Session Classification: Theoretical Physics

Contribution ID: 24

Type: **not specified**

Student Poster Session

Friday 5 August 2016 17:15 (45 minutes)

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

Session Classification: Theoretical Physics

Contribution ID: 25

Type: **not specified**

Extracting Physics Results from LHC data

Monday 8 August 2016 09:30 (45 minutes)

Presenter: MAZINI, Rachid (Academia Sinica (TW))

Session Classification: Experimental Physics

Contribution ID: 26

Type: **not specified**

Heavy Ion Physics I

Monday 8 August 2016 10:15 (45 minutes)

Presenter: LACEY, Roy (Stony Brook University)

Session Classification: Experimental Physics

Contribution ID: 27

Type: **not specified**

Geant-4 Simulation

Monday 8 August 2016 11:30 (1h 30m)

Presenter: APOSTOLAKIS, John (CERN)

Session Classification: Experimental Physics

Contribution ID: 28

Type: **not specified**

Statistical Analysis

Monday 8 August 2016 14:30 (1h 30m)

Presenter: CONNELL, Simon (University of Johannesburg (ZA))

Session Classification: Experimental Physics

Contribution ID: 29

Type: **not specified**

Student Oral Presentations I

Monday 8 August 2016 16:20 (1h 40m)

Session Classification: Experimental Physics

Contribution ID: **30**

Type: **not specified**

Standard Model Results from the LHC

Tuesday 9 August 2016 09:30 (1h 30m)

Presenter: CAMPANELLI, Mario (University College London (UK))

Session Classification: Experimental Physics

Contribution ID: 31

Type: **not specified**

Analysis with ROOT

Tuesday 9 August 2016 11:30 (1h 30m)

Presenters: ILIC, Nikolina (Stanford University (US)); CONNELL, Simon (University of Johannesburg (ZA))

Session Classification: Experimental Physics

Contribution ID: 32

Type: **not specified**

Geant-4 Tutorial

Tuesday 9 August 2016 14:30 (1h 30m)

Presenter: APOSTOLAKIS, John (CERN)

Session Classification: Experimental Physics

Contribution ID: 33

Type: **not specified**

Parallel sessions

Tuesday 9 August 2016 16:30 (1h 30m)

Student Poster Session
Cloud Chamber Experiment
Question / Answer Session

Presenters: Prof. KA, Oumar (Cheikh Anta Diop University Dakar Senegal); MAZINI, Rachid (Academia Sinica (TW)); CONNELL, Simon (University of Johannesburg (ZA)); GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Session Classification: Experimental Physics

Contribution ID: 34

Type: **not specified**

Analysis with ROOT

Wednesday 10 August 2016 09:30 (1h 30m)

Presenters: ILIC, Nikolina (Stanford University (US)); CONNELL, Simon (University of Johannesburg (ZA))

Session Classification: Experimental Physics

Contribution ID: 35

Type: **not specified**

Beyond the Standard Model Physics

Wednesday 10 August 2016 11:30 (1h 30m)

Presenter: CHOU, John Paul (Rutgers, State Univ. of New Jersey (US))

Session Classification: Experimental Physics

Contribution ID: **36**

Type: **not specified**

Nano technology

Wednesday 10 August 2016 14:30 (1h 30m)

Presenter: Dr YITAMBEN, Esmeralda (Sandia National Laboratory)

Session Classification: Experimental Physics

Contribution ID: 37

Type: **not specified**

Web link to ICHEP2016 in Chicago

Session Classification: Experimental Physics

Contribution ID: **38**Type: **not specified**

Parallel Sessions

Wednesday 10 August 2016 16:30 (1h 30m)

Cloud Chamber demonstration
Student poster session
Questions / Answer sessions

Presenters: APOSTOLAKIS, John (CERN); ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); CAMPANELLI, Mario (University College London (UK)); ILIC, Nikolina (Stanford University (US)); Prof. KA, Oumar (Cheikh Anta Diop University, Dakar Senegal); MAZINI, Rachid (Academia Sinica (TW)); CONNELL, Simon (University of Johannesburg (ZA)); GOERLACH, Ulrich (Institut Pluridisciplinaire Hubert Curien (FR))

Session Classification: Experimental Physics

Contribution ID: 39

Type: **not specified**

Introduction to Accelerators

Thursday 11 August 2016 09:30 (1h 30m)

Presenter: BISCARI, Caterina (Istituto Nazionale di Fisica Nucleare (INFN))

Session Classification: Experimental Physics

Contribution ID: 40

Type: **not specified**

Statistical Analysis

Thursday 11 August 2016 14:30 (45 minutes)

Presenter: CONNELL, Simon (University of Johannesburg (ZA))

Session Classification: Experimental Physics

Contribution ID: 41

Type: **not specified**

Colloquium: Experimental Particle Physics

Thursday 11 August 2016 15:15 (45 minutes)

Presenter: DE ROECK, Albert (CERN)

Session Classification: Experimental Physics

Contribution ID: 42

Type: **not specified**

Introduction to synchrotron radiation physics and applications

Thursday 11 August 2016 11:30 (45 minutes)

Presenter: BISCARI, Caterina (Istituto Nazionale di Fisica Nucleare (INFN))

Session Classification: Experimental Physics

Contribution ID: 43

Type: **not specified**

High brightness electron and photon beams

*Thursday 11 August 2016 12:15 (45 minutes)***Presenters:** Dr BACCI, Alberto (INFN-Milan); SERAFINI, luca (INFN-Milan)**Session Classification:** Experimental Physics

Contribution ID: 44

Type: **not specified**

Parallel Session: Heavy Ion Physics II

Thursday 11 August 2016 16:30 (1h 30m)

Presenter: LACEY, Roy (Stony Brook University)

Session Classification: Experimental Physics

Contribution ID: 45

Type: **not specified**

Application of Accelerators to Nuclear Energy

Presenter: KADI, Yacine (CERN)

Session Classification: Experimental Physics

Contribution ID: 46

Type: **not specified**

Advanced radiation sources based on photon beams in collision

Friday 12 August 2016 09:30 (1h 30m)

Presenter: SERAFINI, luca (INFN-Milan)

Session Classification: Experimental Physics

Contribution ID: 47

Type: **not specified**

Workshop for teachers

Friday 12 August 2016 09:30 (1h 30m)

Presenters: SHAW, Kate (INFN Gruppo Collegato di Udine and ICTP Trieste); CECIRE, Kenneth William (University of Notre Dame (US)); BENDER, Michael (University of Dresden); MC CAULEY, Thomas (University of Notre Dame (US))

Session Classification: Experimental Physics

Contribution ID: 48

Type: **not specified**

Contemporary issues in atmospheric science: Rwanda initiatives and perspectives

Friday 12 August 2016 11:30 (1h 30m)

Lecture on LOC Interest

Presenter: Prof. UWAMAHORO, Jean (University of Rwanda)

Session Classification: Experimental Physics

Contribution ID: 49

Type: **not specified**

Workshop for teachers

Friday 12 August 2016 11:30 (1h 30m)

Presenters: SHAW, Kate (INFN Gruppo Collegato di Udine and ICTP Trieste); CECIRE, Kenneth William (University of Notre Dame (US)); BENDER, Michael (University of Dresden)

Session Classification: Experimental Physics

Contribution ID: 50

Type: **not specified**

ATLAS MasterClasses for ASP Students

Friday 12 August 2016 14:30 (1h 30m)

Parallel Sessions

Presenters: SHAW, Kate (INFN Gruppo Collegato di Udine and ICTP Trieste); CECIRE, Kenneth William (University of Notre Dame (US)); Dr BENDER, Michael (University of Dresden)

Session Classification: Experimental Physics

Contribution ID: 51

Type: **not specified**

Practical session on photon beams in collision

Friday 12 August 2016 14:30 (1h 30m)

Parallel Sessions

Presenters: Dr BACCI, Alberto (INFN-Milan); SERAFINI, Luca (INFN-Milan)**Session Classification:** Experimental Physics

Contribution ID: 52

Type: **not specified**

Workshop for teachers

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

Session Classification: Experimental Physics

Contribution ID: 53

Type: **not specified**

ATLAS MasterClasses for ASP Students

Friday 12 August 2016 16:30 (1h 30m)

Parallel Sessions

Presenters: SHAW, Kate (INFN Gruppo Collegato di Udine and ICTP Trieste); CECIRE, Kenneth William (University of Notre Dame (US)); BENDER, Michael (University of Dresden)

Session Classification: Experimental Physics

Contribution ID: 54

Type: **not specified**

Practical session on photon beams in collision

Friday 12 August 2016 16:30 (1h 30m)

Parallel Sessions

Presenters: Dr BACCI, Alberto (INFN-Milan); DARVE, Christine (European Spallation Source); SERAFINI, luca (INFN-Milan)

Session Classification: Experimental Physics

Contribution ID: 55

Type: **not specified**

CMS MasterClasses for High School Teachers

Friday 12 August 2016 16:30 (1h 30m)

Parallel Sessions

Presenter: MC CAULEY, Thomas (University of Notre Dame (US))**Session Classification:** Experimental Physics

Contribution ID: 56

Type: **not specified**

Grid Certificate Registration

Tuesday 16 August 2016 09:30 (10 minutes)

Presenter: SEVERINI, Horst (University of Oklahoma (US))

Session Classification: Applied Physics

Contribution ID: 57

Type: **not specified**

Neutrino Physics

Tuesday 16 August 2016 09:40 (1h 20m)

Presenter: BISHAI, Mary (Brookhaven National Laboratory)

Session Classification: Applied Physics

Contribution ID: 58

Type: **not specified**

Beam diagnostics I & II

Tuesday 16 August 2016 11:30 (1h 30m)

Presenter: RAICH, Uli (CERN)

Session Classification: Applied Physics

Contribution ID: 59

Type: **not specified**

Isotope production for medical applications

Tuesday 16 August 2016 14:30 (1h 30m)

Presenter: KADI, Yacine (CERN)

Session Classification: Applied Physics

Contribution ID: 60

Type: **not specified**

Outreach to secondary education

Tuesday 16 August 2016 14:00 (3 hours)

Outreach to Lycee Notre Dame de Citeaux, Kigali.

The activities at Lycee Notre Dame tomorrow are:

- CERN in 3 min video
- cloud chamber
- particle cards activity (students organize cards)
- slides on basic
- Rolling with Rutherford (roll marbles at targets)
- masterclass intro slides
- ATLAS and CMS masterclass-in-a-box
- Q&A with students

Presenters: GRAY, Julia Ann (University of Kansas (US)); CECIRE, Kenneth William (University of Notre Dame (US)); ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); BENDER, Michael (Ludwig-Maximilians-Univ. Muenchen (DE)); Prof. NKUNDABAKURA, Pheneas (University of Rwanda); MC CAULEY, Thomas (University of Notre Dame (US)); FRUGIUELE, claudia (Carleton University)

Session Classification: Outreach to secondary education

Contribution ID: **61**

Type: **not specified**

Parallel Session: FLUKA Tutorial

Wednesday 17 August 2016 14:30 (1h 30m)

Presenter: KADI, Yacine (CERN)

Session Classification: Applied Physics

Contribution ID: **62**

Type: **not specified**

Intro. to emittance measurement and exercise

Wednesday 17 August 2016 09:30 (1h 30m)

Presenter: RAICH, Uli (CERN)

Session Classification: Applied Physics

Contribution ID: **63**

Type: **not specified**

Gravitational Waves

Presenter: COCCIA, Eugenio (Universita e INFN Roma Tor Vergata (IT))

Session Classification: Applied Physics

Contribution ID: **64**

Type: **not specified**

AIMS

Wednesday 17 August 2016 12:15 (45 minutes)

Presenter: TUROK, Neil (Perimeter Institute)

Session Classification: Applied Physics

Contribution ID: 65

Type: **not specified**

Parallel Session: Tutorial on Beam Dynamics

Presenter: BISCARI, Caterina (Istituto Nazionale di Fisica Nucleare (INFN))

Session Classification: Applied Physics

Contribution ID: **66**

Type: **not specified**

Parallel Session: Digital Library

Wednesday 17 August 2016 16:30 (1h 30m)

Presenter: VIGEN, Jens (CERN)

Session Classification: Applied Physics

Contribution ID: 67

Type: **not specified**

Radiation Measurements & Dosimetry

Thursday 18 August 2016 09:30 (45 minutes)

Presenter: KADI, Yacine (CERN)

Session Classification: Applied Physics

Contribution ID: 68

Type: **not specified**

Discussions & Exercises

Thursday 18 August 2016 10:15 (45 minutes)

Lecture on LOC Interest

Presenters: ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); BISHAI, Mary (Brookhaven National Laboratory); RAICH, Uli (CERN); KADI, Yacine (CERN)

Session Classification: Applied Physics

Contribution ID: 69

Type: **not specified**

Discussions & Exercises

Thursday 18 August 2016 12:15 (45 minutes)

Lecture on LOC Interest

Presenters: Dr MITCHELL, Joseph (Renaissance Technology (US)); ASSAMAGAN, Ketevi Adikle (Brookhaven National Laboratory (US)); RAICH, Ulrich (AB/BDI); KADI, Yacine (CERN)

Session Classification: Applied Physics

Contribution ID: 70

Type: **not specified**

Colloquium: Alternative careers after a degree in Physics

Thursday 18 August 2016 11:30 (45 minutes)

Presenter: Dr MITCHELL, Joseph (Renaissance Technology (US))

Session Classification: Applied Physics

Contribution ID: 71

Type: **not specified**

GRID Session: Welcome & Intro; Use of GRID Computing Technology in HEP

Thursday 18 August 2016 14:30 (45 minutes)

Presenter: YU, Jae (University of Texas at Arlington (US))

Session Classification: Applied Physics

Contribution ID: 72

Type: **not specified**

Intro to High Throughput Computing (HTC)

Thursday 18 August 2016 15:15 (45 minutes)

Presenter: QUICK, Rob (OSG - Indiana University)

Session Classification: Applied Physics

Contribution ID: 73

Type: **not specified**

Running HTC jobs locally with Condor I & II

Thursday 18 August 2016 16:30 (45 minutes)

Presenters: SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); GROSS, Kyle (Open Science Grid / Indiana University); SKUBIC, Patrick (University of Oklahoma (US))

Session Classification: Applied Physics

Contribution ID: 74

Type: **not specified**

More about Condor

Thursday 18 August 2016 17:15 (45 minutes)

Presenter: QUICK, Rob (OSG - Indiana University)

Session Classification: Applied Physics

Contribution ID: 75

Type: **not specified**

More about HTC with Condor I & II

Friday 19 August 2016 09:30 (1h 30m)

Presenters: SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); GROSS, Kyle (Open Science Grid / Indiana University); SKUBIC, Patrick (University of Oklahoma (US))

Session Classification: Applied Physics

Contribution ID: 76

Type: **not specified**

Intro to grids and workflow systems

Friday 19 August 2016 11:40 (35 minutes)

Presenter: QUICK, Rob (OSG - Indiana University)

Session Classification: Applied Physics

Contribution ID: 77

Type: **not specified**

Running jobs remotly with DAGMan

Friday 19 August 2016 12:15 (45 minutes)

Presenters: SEVERINI, Horst (University of Oklahoma (US)); GRAY, Julia Ann (University of Kansas (US)); GROSS, Kyle (Open Science Grid / Indiana University); SKUBIC, Patrick (University of Oklahoma (US))

Session Classification: Applied Physics

Contribution ID: 78

Type: **not specified**

The Grid and how workflow systems use them

Friday 19 August 2016 14:30 (30 minutes)

Presenter: QUICK, Rob (OSG - Indiana University)

Session Classification: Applied Physics

Contribution ID: 79

Type: **not specified**

Lecture: Intro to analysis Example

Friday 19 August 2016 15:00 (30 minutes)

Presenter: SKUBIC, Patrick (University of Oklahoma (US))

Session Classification: Applied Physics

Contribution ID: **80**

Type: **not specified**

Tutorial: Analysis Example

Friday 19 August 2016 15:30 (30 minutes)

Presenters: YU, Jae (University of Texas at Arlington (US)); GRAY, Julia Ann (University of Kansas (US)); SKUBIC, Patrick (University of Oklahoma)

Session Classification: Applied Physics

Contribution ID: **81**

Type: **not specified**

Strategies and technologies for handling large workflows

Friday 19 August 2016 16:30 (30 minutes)

Presenter: QUICK, Rob (OSG - Indiana University)

Session Classification: Applied Physics

Contribution ID: **82**

Type: **not specified**

Wrap-up and pointers to further exercises

Friday 19 August 2016 17:00 (30 minutes)

Presenter: YU, Jae (University of Texas at Arlington (US))

Session Classification: Applied Physics

Contribution ID: **83**

Type: **not specified**

Student Survey / Poster Awards / Acknowledgements

Friday 19 August 2016 17:30 (30 minutes)

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

Session Classification: Applied Physics

Contribution ID: **84**

Type: **not specified**

Welcomme address

Saturday 13 August 2016 14:00 (10 minutes)

Presenter: HUGHES, Mike (Rwandan Ministry of Education)

Session Classification: Forum & Outreach Day

Contribution ID: 85

Type: **not specified**

The African School of Fundamental Physics & Applications

Saturday 13 August 2016 14:10 (20 minutes)

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

Session Classification: Forum & Outreach Day

Contribution ID: **86**

Type: **not specified**

The new ICTP Centre (The East African Institute for Fundamental Research)

Saturday 13 August 2016 14:50 (10 minutes)

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

Session Classification: Forum & Outreach Day

Contribution ID: 87

Type: **not specified**

Rwandan Ministry of Education (Guest of Honor Address)

Saturday 13 August 2016 15:35 (15 minutes)

Session Classification: Forum & Outreach Day

Contribution ID: **88**

Type: **not specified**

Kigali based SMART Africa

Saturday 13 August 2016 16:20 (10 minutes)

Presenter: NKURIKIYIMFURA, Didier (SMART Africa)

Session Classification: Forum & Outreach Day

Contribution ID: **89**

Type: **not specified**

Discussion

Session Classification: Forum & Outreach Day

Contribution ID: **90**

Type: **not specified**

The South African NRF/DST

Saturday 13 August 2016 16:35 (15 minutes)

Presenters: SENONA, Joseph (DST South Africa); NXUMALO, Michael (NRF South Africa)

Session Classification: Forum & Outreach Day

Contribution ID: 91

Type: **not specified**

The Namibian National Commission for Research, Science and Technology

Saturday 13 August 2016 17:10 (15 minutes)

Presenters: KASAI, Eli (University of Namibia); SHAHUNGU, Mweneni (NCRST Namibia)

Session Classification: Forum & Outreach Day

Contribution ID: 92

Type: **not specified**

AIMS / African Academy of Science / Regional Initiative in Science and Engineering

Session Classification: Forum & Outreach Day

Contribution ID: 93

Type: **not specified**

Beyond Capacity Building

Saturday 13 August 2016 18:10 (20 minutes)

Presenter: CONNELL, Simon (University of Johannesburg (ZA))

Session Classification: Forum & Outreach Day

Contribution ID: 94

Type: **not specified**

Compact Laser Synchrotron Facility for Africa

Saturday 13 August 2016 17:50 (15 minutes)

Presenter: SERAFINI, luca (INFN-Milan)

Session Classification: Forum & Outreach Day

Contribution ID: 95

Type: **not specified**

CERN / LHC / ATLAS Outreach in Africa

Saturday 13 August 2016 17:30 (15 minutes)

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

Session Classification: Forum & Outreach Day

Contribution ID: 96

Type: **not specified**

Inter University Council for East Africa

Saturday 13 August 2016 15:05 (10 minutes)

Presenter: LYAMBABAJE, Alexandre (IUCEA Rwanda)

Session Classification: Forum & Outreach Day

Contribution ID: 97

Type: **not specified**

East Africa Science and Technology Commission

Saturday 13 August 2016 15:20 (10 minutes)

Presenter: KIBEYA, Saidi (EASTCO Rwanda)

Session Classification: Forum & Outreach Day

Contribution ID: **98**

Type: **not specified**

National Commission for Science and Technology

Session Classification: Forum & Outreach Day

Contribution ID: 99

Type: **not specified**

CMS MasterClasses for High School Teachers

Friday 12 August 2016 14:30 (1h 30m)

Parallel Session

Presenter: MC CAULEY, Thomas (University of Notre Dame (US))

Session Classification: Experimental Physics

Contribution ID: **100**Type: **not specified**

Video Link to ICHEP 2016 in Chicago

Friday 5 August 2016 15:00 (1 hour)

To establish a video link with physicists that are attending the ICHEP 2016 workshop in Chicago.
Purpose: to discuss life as a physicist, opportunities for higher education, career opportunities, the issue of retention or brain drain

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

Contribution ID: **101**

Type: **not specified**

Linux Tutorial I and II

Presenter: Prof. NKUNDABAKURA, Pheneas (University of Rwanda)

Contribution ID: **102**

Type: **not specified**

Linux Tutorial I and II

Tuesday 2 August 2016 14:30 (1h 30m)

Presenter: Dr NKUNDABAKURA, Pheneas (University of Rwanda)

Session Classification: Theoretical Physics

Contribution ID: **103**

Type: **not specified**

Linux Tutorial III and IV

Tuesday 2 August 2016 16:30 (1h 30m)

Presenter: Dr NKUNDABAKURA, Pheneas (University of Rwanda)

Session Classification: Theoretical Physics

Contribution ID: **104**

Type: **not specified**

Monte Carlo Generators I and II

Wednesday 3 August 2016 11:30 (1h 30m)

Presenter: SCHOENHERR, Marek (Universitaet Zuerich (CH))

Session Classification: Theoretical Physics

Contribution ID: **105**

Type: **not specified**

Astro Particle Physics and Cosmology I & II - Theory

Wednesday 3 August 2016 16:30 (1h 30m)

Presenter: Prof. MBONYE, Manasse (University of Rwanda)

Session Classification: Theoretical Physics

Contribution ID: **106**

Type: **not specified**

Monte Carlo Generators III

Wednesday 3 August 2016 14:30 (45 minutes)

Presenter: SCHOENHERR, Marek (Universitaet Zuerich (CH))

Session Classification: Theoretical Physics

Contribution ID: **107**

Type: **not specified**

Tutorial on Monte Carlo Generators

Wednesday 3 August 2016 15:15 (45 minutes)

Presenter: SCHOENHERR, Marek (Universitaet Zuerich (CH))

Session Classification: Theoretical Physics

Contribution ID: **108**

Type: **not specified**

Nuclear Physics I and II

Thursday 4 August 2016 16:30 (1h 30m)

Presenter: LAWRENCE, David (Jefferson Lab)

Session Classification: Theoretical Physics

Contribution ID: **109**

Type: **not specified**

Parallel Session: Gravitational Waves

Thursday 11 August 2016 16:30 (1h 30m)

Presenter: COCCIA, Eugenio (Universita e INFN Roma Tor Vergata (IT))

Session Classification: Experimental Physics

Contribution ID: **110**

Type: **not specified**

Applications of accelerators to nuclear energy

Wednesday 17 August 2016 11:30 (45 minutes)

Presenter: KADI, Yacine (CERN)

Session Classification: Applied Physics

Contribution ID: 111

Type: **not specified**

Parallel Session: Tutorial on beam dynamics

Tuesday 16 August 2016 16:30 (1h 30m)

Presenter: BISCARI, Caterina

Session Classification: Applied Physics

Contribution ID: 112

Type: **not specified**

Parallel Session: FLUKA Tutorial

Presenter: KADI, Yacine (CERN)

Session Classification: Applied Physics

Contribution ID: 113

Type: **not specified**

Parallel Session: Cosmology

Wednesday 17 August 2016 16:30 (1h 30m)

Presenter: TOROK, Neil (Perimeter Institute)

Session Classification: Applied Physics

Contribution ID: 114

Type: **not specified**

Parallel Session: Cosmology

Wednesday 17 August 2016 14:30 (1h 30m)

Presenter: TUROK, Neil (Perimeter Institute)

Session Classification: Applied Physics

Contribution ID: 115

Type: **not specified**

Parallel Session: Nuclear Physics

Presenter: BABCOCK, Carla (University of Liverpool (GB))

Session Classification: Experimental Physics

Contribution ID: **116**

Type: **not specified**

Student Oral Presentation II

Monday 8 August 2016 16:20 (1h 40m)

Session Classification: Experimental Physics

Contribution ID: 117

Type: **not specified**

ASP2016 Student Feedback

Saturday 13 August 2016 14:35 (10 minutes)

Presenter: IKUZWE, Alice (University of Pretoria)

Session Classification: Forum & Outreach Day

Contribution ID: **118**

Type: **not specified**

Closing Remarks

Saturday 13 August 2016 18:35 (5 minutes)

Presenter: CUTTON, Phil (University of Rwanda)

Session Classification: Forum & Outreach Day

Contribution ID: **119**

Type: **not specified**

The Role of Industry

Saturday 13 August 2016 16:55 (10 minutes)

Session Classification: Forum & Outreach Day

Contribution ID: **120**Type: **not specified**

The Cosmic Wheel

Wednesday 17 August 2016 09:00 (30 minutes)

Demonstration of the usage of the cosmic wheel as a particle physics detector. It is a system of 3 plastic scintillator detectors, readout with PMTs interfaced to a LabView data acquisition system. Demonstration of single rates and coincidence rate countings, counting cosmic rates as a function of the detector plan angle with respect to the vertical, possibility to do the muon lifetime experiment.

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

Contribution ID: 121

Type: **not specified**

Outreach to Lycee de Kigali

Wednesday 17 August 2016 14:00 (3 hours)

- CERN in 3 min video
- Cloud chamber
- Particle cards activity (students organize cards)
- Slides on basics
- Rolling with Rutherford (roll marbles at targets)
- Masterclass intro slides
- ATLAS and CMS masterclass-in-a-box
- Q&A with students

Presenters: Prof. UWAMAHORO, Jean (University of Rwanda); GRAY, Julia Ann (University of Kansas (US)); BENDER, Michael (Ludwig-Maximilians-Univ. Muenchen (DE)); MC CAULEY, Thomas (University of Notre Dame (US)); FRUGIUELE, claudia (Carleton University)

Session Classification: Outreach to secondary education

Contribution ID: 122

Type: **not specified**

Outreach to APRED

*Thursday 18 August 2016 14:00 (3 hours)***Activities:**

- CERN in 3 min video
- cloud chamber
- particle cards activity (students organize cards)
- slides on basic
- Rolling with Rutherford (roll marbles at targets)
- masterclass intro slides
- ATLAS and CMS masterclass-in-a-box
- Q&A with students

Presenters: CECIRE, Kenneth William (University of Notre Dame (US)); BISHAI, Mary (Brookhaven National Laboratory); BENDER, Michael (Ludwig-Maximilians-Univ. Muenchen (DE)); MC CAULEY, Thomas (University of Notre Dame (US)); FRUGIUELE, claudia (Carleton University)

Session Classification: Outreach to secondary education

Contribution ID: 124

Type: **not specified**

Education and Outreach Opportunities

Friday 19 August 2016 11:30 (10 minutes)

Presenter: SHAW, Kate (INFN Gruppo Collegato di Udine and ICTP Trieste)

Session Classification: Applied Physics