

**Celebration of the discovery
of the Higgs boson
Anniversary from Africa**

Report of Contributions

Contribution ID: 1

Type: **not specified**

African Physical Society

Session Classification: Opening from the AfPS

Contribution ID: 2

Type: **not specified**

Opening from the African Physical Society

Monday 4 July 2022 10:00 (15 minutes)

President of the African physical Society

Presenter: WAGUE, Ahmadou

Contribution ID: 3

Type: **not specified**

Review and Prospects of Higgs physics from ATLAS since the discovery

Monday 4 July 2022 10:45 (30 minutes)

Prof. Bill Murray was the ATLAS Higgs Convener in the run-up to Higgs discovery 2012 and then Physics Coordinator. More recently he has coordinated the ATLAS Tracking In Dense Environments group and is currently Higgs and Diboson Searches Convener. He also engages with future collider projects. The Warwick ATLAS Group, led by Prof. Bill Murray, have made substantial contributions to the ATLAS trigger and physics analysis and have held several coordination roles within the collaboration. A focus of the new appointment will be a substantial role in delivering aspects of Warwick's responsibilities for the ATLAS upgrade.

Presenter: MURRAY, Bill (University of Warwick (GB))

Contribution ID: 4

Type: **not specified**

Review and Prospects of Higgs physics from CMS since the discovery

Monday 4 July 2022 10:15 (30 minutes)

Professor Dr. Albert De Roeck is a senior research scientist and staff member at CERN and a professor at the University of Antwerp, Belgium. He obtained his Ph.D. at the University of Antwerp and then spent ten years at the German particle physics laboratory, DESY, where he and his team made very precise measurements of the quark and gluon structure of the proton, and performed precise tests of the strong force. To pursue his interest in discovering new physics at particle colliders, in particular supersymmetry and extra dimensions, he returned to CERN. During the last ten years, he has played a significant role in the preparation of one of the experiments at the LHC: the Compact Muon Solenoid (CMS). De Roeck is one of the leaders in the CMS physics program and was the deputy spokesperson of the experiment in 2010 and 2011. He is presently the convener of the Higgs search physics group.

Presenter: DE ROECK, Albert (CERN)

Contribution ID: 5

Type: **not specified**

Morocco: Historical perspective up to Higgs discovery

Monday 4 July 2022 11:17 (15 minutes)

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

Contribution ID: 6

Type: **not specified**

Morocco: Current status and future perspectives

Monday 4 July 2022 11:32 (15 minutes)

Presenter: BENCHEKROUN, Driss (Universite Hassan II, Ain Chock (MA))

Contribution ID: 7

Type: **not specified**

Egypt: Historical perspective up to Higgs discovery

Monday 4 July 2022 11:47 (15 minutes)

Presenter: ALY, Reham (Politecnico - Universita e INFN, Bari (IT))

Contribution ID: 8

Type: **not specified**

Egypt: Current status and future perspectives

Monday 4 July 2022 12:03 (15 minutes)

Presenter: ABDELALIM, Ahmed Ali (Helwan University, also at CTP, Zewail City of Science and Tech.)

Contribution ID: 9

Type: **not specified**

South Africa: Historical perspective for the SA-CERN Programme

Monday 4 July 2022 12:18 (15 minutes)

Presenter: VILAKAZI, Zeblon (iThemba LABS, National Research Foundation (ZA))

Contribution ID: **10**

Type: **not specified**

South Africa: Current status and future perspectives

Monday 4 July 2022 12:36 (15 minutes)

Presenter: LEEUW, Lerothodi Leonard (University of Johannesburg (ZA))

Contribution ID: **11**

Type: **not specified**

Selected contributions from the African diaspora

Monday 4 July 2022 13:41 (15 minutes)

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

Contribution ID: 12

Type: **not specified**

Closing from African Academy of Sciences

Monday 4 July 2022 14:11 (15 minutes)

The Acting Executive Director of the African Academy of Sciences (AAS)

Presenter: NGILA, Catherine (The Ag. Executive Director)

Contribution ID: 13

Type: **not specified**

Selected contributions from the Non-Member Countries

Monday 4 July 2022 13:56 (15 minutes)

Université Cheikh Anta Diop de Dakar, Sénégal

Founding member and current President of the Senegalese Physical Society

Co-Vice President of the West African Physical Society

Presenter: KA, Oumar (Cheikh Anta Diop University)

Contribution ID: 14

Type: **not specified**

Contribution from the ASFAP Working Group on Particle Physics

Monday 4 July 2022 13:26 (15 minutes)

Presenter: CHABAB, Mohamed (Cadi Ayyad University)

Contribution ID: 15

Type: **not specified**

A High-Granularity Timing Detector (HGTD) for the Phase-II upgrade of the ATLAS detector

Presenter: ABOULHORMA, Asmaa (Universite Mohammed V (MA))

Session Classification: Posters

Contribution ID: 16

Type: **not specified**

A High-Granularity Timing Detector (HGTD) for the Phase-II upgrade of the ATLAS detector

Monday 4 July 2022 15:45 (5 minutes)

Presenter: ABOULHORMA, Asmaa (Universite Mohammed V (MA))

Contribution ID: 17

Type: **not specified**

QCD background estimation for top-antitop resonances search in the lepton plus jets final state with the ATLAS experiment at the LHC

Monday 4 July 2022 15:50 (5 minutes)

Presenter: NGAIR, Badr-Eddine (Universite Mohammed V (MA))

Contribution ID: **18**

Type: **not specified**

Performance of missing transverse momentum reconstruction: muon-jets overlap removal

Monday 4 July 2022 15:55 (5 minutes)

Presenter: Mr ZAAZOUA, Mohamed (Universite Mohammed V (MA))

Contribution ID: **19**

Type: **not specified**

UJ @ ATLAS : History, Analysis, Operations, Computing, Tech transfer, Outreach

Monday 4 July 2022 16:00 (5 minutes)

Presenter: BALLESTRERO ET AL., S.