

Session Program

28 June 2018 to 4 July 2018



First Biennial African Conference on Fundamental Physics and Applications

Accelerator, Medical and Radiation Physics

Namibia University of Science and Technology, Auditorium 1, Brahms Street
Namibia University of Science and Technology (NUST), Windhoek Namibia

Friday 29 June

11:00

Accelerator, Medical and Radiation Physics: Existing Facility and Future Concepts for Accelerators for Africa

Session |

Location: Namibia University of Science and Technology, Auditorium 1, Brahms Street, Namibia University of Science and Technology (NUST), Windhoek Namibia |

Conveners: Marco Silari, Christine Darve, Caterina Biscari

11:00-11:25

Plasma Accelerators / Compact Accelerators

Speaker

Ralph Wolfgang Assmann

11:30-11:55

Research at iThemba LABS and Long Range Plan

Speaker

Kobus Lawrie

12:00

Monday 2 July

11:35

Accelerator, Medical and Radiation Physics

Session |

Location: Namibia University of Science and Technology, Auditorium 1, Brahms Street, Namibia University of Science and Technology (NUST), Windhoek Namibia |

Conveners: Christine Darve, Marco Silari

11:35-12:00

Updates on the African Synchrotron Light Source (AfLS) Project

Speaker

Prof. Tabbetha Dobbins

12:05

Tuesday 3 July

14:00

Accelerator, Medical and Radiation Physics: Particle Colliders / Medical Applications

Session |

Location: Namibia University of Science and Technology, Auditorium 1, Brahms Street, Namibia University of Science and Technology (NUST), Windhoek Namibia |

Conveners: Caterina Biscari, Marco Silari

14:00–14:25 **The LHC, HL-LHC and FCC**

Speaker

Mike Lamont

14:30–14:50 **The European Spallation Source as a new tools for discovery**

Speaker

Christine Darve

14:55–15:15

Building medical physics capacity in East Africa to reduce radiation toxicities and manage radiotherapy care for cancer treatment

Speaker

Stephen Avery

15:20–15:35

Indoor Radon levels and the associated effective dose rate in selected buildings at the Namibia University of Science and Technology

Speaker

Munyaradzi Zivuku

15:40

16:10

Accelerator, Medical and Radiation Physics: Particle Colliders / Medical Applications

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Conveners: Marco Silari, Caterina Biscari

16:10–16:35 **Medical Accelerators**

Speaker

Marco Silari

16:40–17:05 **Radioisotope Production**

Speaker

Cathy Cutler

17:10–17:25

Health risk assessment of natural occurring radionuclides in shore sediment collected from Ovambo beach, Walvis Bay, Namibia

Speaker

Sylvanus Onjefu

17:30-17:45

Excess lifetime cancer risk due to natural radioactivity in soils: Case of Karibib town in Namibia

Speaker

Munyaradzi Zivuku

17:50