Session Program

29 July 2016 to 21 August 2016

African School of Fundamental
Physics and Applications

ASP2016

Applied Physics

Other Institutes
University of Rwanda, Kigali

Tuesday 16 August

09:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

> 09:30–09:40 **Grid Certificate Registration**
>
> **Speaker**
> Horst Severini

> 09:40–11:00 **Neutrino Physics**
>
> **Speaker**
> Mary Bishai

11:00

11:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

> 11:30–13:00 **Beam diagnostics I & II**
>
> **Speaker**
> Uli Raich

13:00

14:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

> 14:30–16:00 **Isotope production for medical applications**
>
> **Speaker**
> Yacine Kadi

16:00

16:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

> 16:30–18:00 **Parallel Session: Tutorial on beam dynamics**
>
> **Speaker**
> Caterina Biscari

18:00

Wednesday 17 August

09:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

09:30–11:00 **Intro. to emittence measurement and exercise**

Speaker
Uli Raich

11:00

11:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

11:30–12:15 **Applications of accelerators to nuclear energy**

Speaker
Yacine Kadi

12:15–13:00 **AIMS**

Speaker
Neil Turok

13:00

14:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

14:30–16:00 **Parallel Session: Cosmology**

Speaker
Neil Turok

14:30–16:00 **Parallel Session: FLUKA Tutorial**

Speaker
Yacine Kadi

16:00

16:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

16:30–18:00 **Parallel Session: Digital Library**

Speaker
Jens Vigen

16:30–18:00 **Parallel Session: Cosmology**

Speaker
Neil Torok

18:00

Thursday 18 August

09:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

09:30–10:15 **Radiation Measurements & Dosimetry**

Speaker
Yacine Kadi

10:15–11:00 **Discussions & Exercises**

Speakers
Ketevi Adikle Assamagan, Mary Bishai, Uli Raich, Yacine Kadi

11:00

11:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

11:30–12:15 **Colloquium: Alternative careers after a degree in Physics**

Speaker
Dr Joseph Mitchell

12:15–13:00 **Discussions & Exercises**

Speakers
Dr Joseph Mitchell, Ketevi Adikle Assamagan, Ulrich Raich, Yacine Kadi

13:00

14:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

14:30–15:15

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

Speaker
Jae Yu

15:15–16:00 **Intro to High Throughput Computing (HTC)**

Speaker
Rob Quick

16:00

16:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

16:30–17:15 **Running HTC jobs locally with Condor I & II**

Speakers
Horst Severini, Julia Ann Gray, Kyle Gross, Patrick Skubic

17:15–18:00 **More about Condor**

Speaker
Rob Quick

18:00

Friday 19 August

09:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

09:30–11:00 **More about HTC with Condor I & II**

Speakers
Horst Severini, Julia Ann Gray, Kyle Gross, Patrick Skubic

11:00

11:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

11:30–11:40 **Education and Outreach Opportunities**

Speaker
Kate Shaw

11:40–12:15 **Intro to grids and workflow systems**

Speaker
Rob Quick

12:15–13:00 **Running jobs remotly with DAGMan**

Speakers
Horst Severini, Julia Ann Gray, Kyle Gross, Patrick Skubic

13:00

14:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

14:30–15:00 **The Grid and how workflow systems use them**

Speaker
Rob Quick

15:00–15:30 **Lecture: Intro to analysis Example**

Speaker
Patrick Skubic

15:30–16:00 **Tutorial: Analysis Example**

Speakers
Jae Yu, Julia Ann Gray, Patrick Skubic

16:00

16:30

Applied Physics
Session | **Location:** Other Institutes, University of Rwanda, Kigali

16:30–17:00 **Strategies and technologies for handling large workflows**

Speaker
Rob Quick

17:00–17:30 **Wrap-up and pointers to further exercises**

Speaker

Jae Yu

17:30–18:00 **Student Survey / Poster Awards / Acknowledgements**

Speaker

Ketevi Adikle Assamagan

18:00