

C and Linux for Science & Engineering



United Nations
Educational, Scientific and
Cultural Organization



ICTP - East African Institute
for Fundamental Research
under the auspices of UNESCO

24 October - 9 December 2022
An ICTP Virtual Meeting
Kigali, Rwanda

Further information:

<http://indico.ictp.it/event/10051/>
smr3821@ictp.it

The relevance of computers in all fields of both applied and basic sciences has rapidly grown in the last decades and is crucial nowadays to the point where computer simulations have now become a de-facto third pillar of scientific progress together with theory and experiments. Within its mission of fostering higher education in Rwanda, EAFIR, together with ICTP Trieste Italy, is organizing a series of e-lectures on scientific computing.

The program is open to students and scientists at different levels whose resident institutions are based within the country.

The first series of lecture "C and Linux for science and engineering" will be scheduled twice a week with two e-classes of about 2.5 hours each, and for 5 weeks in a row.

Learning C and Linux is important as this would provide a good understanding of important basics in the workings and operations of computers.

Topics:

1. Linux CLI

- Editing files from Linux CLI
- Plotting with Gnuplot
- Search of text patterns in the Linux CLI environment
- BASH and AWK scripting

2. Basics of C

- Programming
- Compiling and linking from the Linux CLI environment
- Memory management and basic I/O

Directors:

O. AKIN-OJO, ICTP EAFIR, Rwanda

I. GIROTTI, ICTP, Italy

A. HASSANALI, ICTP, Italy

Local Organiser:

I. GIROTTI, ICTP, Italy

Lecturers:

E. MENKAH, KNUST, Ghana

I. GIROTTI, ICTP, Italy

Tutors:

S. DI GIOIA, MHPC/SISSA, Italy

M.-J. SULE, ICTP, Italy

O. N. TROCONIS, MHPC/ICTP, Italy

A. C. TRUJILLO OCHOA, MHPC/ICTP, Italy

How to apply:

Online application:

<http://indico.ictp.it/event/10051/>

Female scientists are encouraged to apply.

Registration:

There is no registration fee.

Deadline:

For applications from scientists whom current institution is within Rwanda.

16 October 2022



The Abdus Salam
International Centre
for Theoretical Physics
www.ictp.it
Trieste, Italy

