



The Abdus Salam  
International Centre  
for Theoretical Physics



# ICTP-EAUMP School on Real and Harmonic Analysis

in collaboration with AMU, CIMPA, ISP, CoRE-Math, and University of Rwanda

## DESCRIPTION:

This school focuses on the foundations of real and harmonic analysis, and their interactions with other areas of pure and applied mathematics.

## TOPICS:

Real analysis studies the fine properties of functions and sets, while harmonic analysis provides a mathematical framework to study different types of oscillatory phenomena in nature. Together, they lie in the backbone of many applications in other areas, including partial differential equations, complex analysis, number theory, computer science and engineering. In this school, several experts in the field will deliver a series of introductory minicourses presenting core topics and some of these connections.

## LOCAL DIRECTORS:

M. Froduald  
Rwanda  
C. Kurujyibwami  
Rwanda  
S. Mukeshimana  
Rwanda

D. Ndanguza  
Rwanda  
V. Nyagahakwa  
Rwanda  
B. Wellars  
Rwanda

## SPEAKERS:

### Week 1

E. Carneiro  
ICTP, Italy  
C. Kurujyibwami  
UR, Rwanda  
L. Roncal  
BCAM, Spain  
M. Sousa  
BCAM, Spain

### Week 2

J. Bonyo  
MMU, Kenya  
G. Nornberg  
UC, Chile  
D. Oliveira e Silva  
IST - Lisbon, Portugal



21 July - 1 August 2025



Kigali, Rwanda



Deadline:  
1 April 2025

## INTERNATIONAL DIRECTORS:

S. Luketero, Kenya  
J. Mango, Uganda  
M. Sousa, Spain  
B. Szendroi, Austria  
B.-O. Turesson, Sweden  
P. Vaderlind, Sweden

## ICTP SCIENTIFIC CONTACT:

E. Carneiro, Italy

## GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

## TO SUBMIT YOUR APPLICATION:



Web: <https://indico.ictp.it/event/10852/>

E-mail: [smr4087@ictp.it](mailto:smr4087@ictp.it)

Female scientists are encouraged to apply.

