



AIMS

**African Institute for
Mathematical Science
CAMEROON**

AIMS - Cameroon
Limbe, Crystal Gardens,
South-West Region
P.O. Box 608 Limbe, Cameroon

AIMS Cameroon Provisional Academic Agenda 2020-2021

N°	Phase	Period	Type of activity	Course/Activity title	Lecturer(s)	Affiliation	Country
OR 01	Welcome & Orientation	October 05-10	Arrival				
			Orientation & Language Training	Orientation	AIMS Staff	AIMS Cameroon	Cameroon
				Intensive Language Training	Charlotte Bilong	GBHS Limbe	Cameroon
			Computing	Introductory Computing & Programming	Tutors	AIMS Cameroon	Cameroon
SC 01.1	Skills Phase	October 12 - 31	Skills Block 1	Refresher (Linear Algebra)	Prof. Marco & Tutors	AIMS Cameroon	Cameroon
SC 02				Concepts in Physics and Physical Problem Solving	Dr. Etienne Wamba	University of Buea	Cameroon
SC 03				Introductory Programming with Python	Prof. Marco & Tutors	AIMS Cameroon	Cameroon
SC 04		November 02 - 21	Skills Block 2	Mathematical Problem Solving	Dr. Ferdinand Ngakeu	University of Douala	Cameroon
SC 05				Computational Mathematics with Sage	Dr. Daniel Duviol Tcheutia	University of Kassel	Germany
SC 01.2		November 23 -	Skills Block 3	Refresher (ODE, Measure & Probability)	Prof. Marco & Tutors	AIMS Cameroon	Cameroon
SC 06				Statistics Problem Solving	Prof. Roger Stern,	Reading University,	UK, Kenya &

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		December 12			James Musyoka & Francis Torgbor	Maseno University & Cape Coast University	Ghana	
RW 01		December 14-19	Local Workshop					
		December 21 - January 02	Christmas Holidays					
RC 1.1	Review Phase	January 04-23	Review Block 1	PDEs of Mathematical Physics	Dr. Rainer Mandel	Karlsruher Institut für Technologie	Germany	
RC 1.2				Statistical Inference	Dr. Ziad Taib	Atlas Biostat	Sweden	
RC 2.1		January 25 - February 13	Review Block 2	Machine Learning Made Easy	Prof. Jeff Edmonds	York University	Canada	
RC 2.2				Atmospheric Physics and Climate Dynamics	?	?	?	
RC 2.3				Number Theory	Prof. Florian Luca & Prof. Michel Waldschmidt	University of the Witwatersrand & Sorbonne Université	South Africa & France	
RC 2.4				Functional Analysis	Dr. Jean-Daniel Djida & Prof. Marco	AIMS Cameroon	Cameroon	
RC 3.1			Climate Modelling	Dr. Mouhamadou BambaSylla	AIMS Rwanda Research Chair			

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RC 3.2	Review Phase	February 15 – March 07	Review Block 3	Stein's Method and It's Uses in Machine Learning	Bhairav Mehta	Mila Lab	Canada
RC 3.3				Data Analysis	Prof. Jane Hutton	University of Warwick	uk
RC 3.4				Mathematical population genetics and biostatistics with applications to malaria	Prof. Kristan Schneider	Hochschule Mittweida	Austria
RC 3.5				Quantum Computing	Dr. Wolfgang Scherer		UK
RW 02				March 09-13	Local Workshop	Mathematical Statistics	Dr. Patrice Takam Soh
RC 4.1	March 15 – April 02	Review Block 4		Mathematical Modelling of Dynamic Systems	Prof. Martin Eichner	Universität Tübingen	Germany
RC 4.2				Groups, Rings and Fields with Applications to Coding Theory and Cryptography	Prof. Hans-Georg Rück	Universität Kassel	Germany
RC 4.3				Data Science	Dr. Bubacarr Bah & Dr. Frank Kalala	AIMS South Africa Research Chair & AIMS Senegal	The Gambia & DRC
RC 4.4				Introduction to the design and analysis of randomized controlled trials	Dr Sarah Rhodes	Manchester University	UK
RC 5.1						Mathematical Methods for Climate Science	?

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RC 5.2		April 05 - 23	Review Block 5	Advanced Data Science	Dr. Ndeye Niang Keita	CNAM, Paris	Senegal
RC 5.3				Introduction to Algebraic Geometry	Prof. Marco A. Garuti	AIMS Cameroon	Italy
RC 5.4				Scientific Computing	Prof. Georg Bader	BTU Cottbus	Germany
RC 6.1		April 26 - May 14	Review Block 6	Statistical Climatology	Prof. Roger Stern & Danny Parsons	University of Reading	UK
RC 6.2				Stochastic Analysis	Prof. Olivier Menoukeu Pamen	AIMS Ghana Research Chair	Cameroon
RC 6.3				Interpolation, Approximation and Orthogonal Polynomials	Prof. Mama Foupouagnigni	AIMS Cameroon	Cameroon
EPh 01	Research Phase	May 17 - June 25	Essay Preparation Phase	Working on Essay Topics (6 weeks)	Supervisors		
Eph 02		June 28 - July 02	Preparation for Defense	Additional Reading and Rehearsals			
Eph 03		July 05 - 10	Defenses	Oral presentations			
Gr 01	Graduation	July 12	Preparation for Graduation	Preparation for Graduation + Volunteering			
Gr 02		July 13	Graduation Day				

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	Departure	July 19-24					