

**To: CDC 2019-2022  
IMU/ CDC 2015-2018 Circular 4, December 20, 2021**

Dear colleagues,  
You will find below the decisions (by e-mail) and updates of the programs since CDC Meeting 2021. There are not action items.

Season's Greetings!

Olga Gil Medrano

## **1. Decisions from CDC- Meeting in March 2021**

a) On October 10, 2021, CDC decided by e-mail vote to open a new call for project support (with a total budget of 50.000 Euros) with the similar conditions as the previous one for projects that should start between July 1, 2022 and June 30, 2023. The maximum amount to be awarded to each application is 10.000€. The deadline for applications is January 31, 2022.

b) Virtual Volunteer Lecturers Program. After e-mail discussion about the proposal received from Carlos and Helge about a new strand of the current VLP consisting in online lectures, CDC has approved on November 21, 2021 the following:

- 1) To launch a pilot project whose exact rules and duration will be defined in the coming CDC Meeting.
- 2) To entrust the VLP subcommittee with a proposal by February 15, 2022, to be included in the Agenda of the CDC Meeting.
- 3) To appoint Michel Waldschmidt as a member of the VLP subcommittee.

## **2. Follow-up of decisions**

a) Changes in the programs to adapt to the situation created by CoviD19.

In respect to all the new rules for the programs decided during the March Meeting, Lena and Vanessa jointly with Alf and Olga have sorted out the operational aspects, implemented the needed changes on the website and application and report forms, informed the applicants and spreading information. The current wording of the calls can be seen in the folder "CDC Programs (2021)" in CDC internal site.

b) Dipendra's initiative (approved by CDC in the 2021 Meeting) proposing the ICM2022 LOC to support (in the same conditions as Chebyshev grants) all the 36 panel members got a positive reaction from the IMC organisers.

c) CDC activity in the ICM2022

I have contacted with the Local Organisers to propose the activity that has been approved. We are only pending of LOC deciding the final grid to know the date and time of the CDC discussion panels.

I have explored with IMU General Secretary, Lena and Scott the possibility of CDC temporarily employing additional administrative assistance for this activity from March 1 till July 31 and this question has been also positively solved.

d) CDC Communication.

Vanessa has updated the CDC Flyers and we have made them easy to download by a link on the first page of the CDC website. We have reorganised the banners and the sliders to make the CDC programs (and the sponsors) more visible in this first page.

We have tried to reinforce communication by e-mail and Facebook as well as by the insertions in the IMU-Newsletter.

e) Cooperation with ICTP.

As a continuation of the March joint Meeting, a working group composed by Alf, Andrea, Dipendra, Luigi, Olga, Ramadas, Emanuel Carneiro and Claudio Arezzo has been discussing about the different possible cooperation scenarios, mainly by mail with a zoom meeting on December 9, 2021. The conclusions are in the Annex.

### 3. News and updates

a) Chebyshev Grants.

By the end of the initial deadline for applications, the organisers extended it till May 1 2021, with applications received before this date being given priority.

Finally the number of applications has been of about 1.800.

On October 17, 2021 we have received the sad news of Charles Chidume passed away recently. Chidume was the chair of the African Panel in charge of evaluating Chebyshev grants. Julia Pestova has suggested (and Dipendra and myself have agreed) to appoint Nouzha El Jacoubi (which was a member of the Panel) as the new chair so that the panel can resume (or perhaps start) the very urgent evaluation task as soon as possible. The evaluation of the African Panel was completed by 1 December.

b) Donation received.

In September 2021 IMU-CDC has received an unexpected one-time donation, more precisely: Donation from the fundraiser for pure mathematics at Leicester University, UK of £23024.68, ( 27.000 €).

#### 4. Updates about the CDC Programs

##### a) Conferences Support Program

From the 27 conferences awarded in 2020, 14 of them have been cancelled (approx. amount of 25.000 €) Five conferences have been postponed.

All the conferences that took place (8) were in hybrid format. All grantees, except one, made use of the funds granted partially for equipment and services to conduct the activities online.

Algeria	Various aspects of dynamical systems,
Cameroon	African Mathematical School and CRAG-10 International Conference on Algebra, Arithmetic and Combinatorial Geometry, Algebraic Number Theory with Applications to Cryptology,
Kenya	Strathmore International Mathematics Conference
Madagascar	CIMPA Research school 2020-Non-associative Algebras and their Applications,
Madagascar	CIMPA 2021-Fianarantsoa research school (Madagascar),
Philippines	SEAMS School 2020 on Modern Trends in Signal and Data Processing,
Rwanda	Research School-Mathematics of Climate Science,
Uzbekistan	Complex Analysis, Geometry and Dynamics" & workshop "Trends in Complex Geometry",

During 2021, GSC has evaluated 17 applications and awarded 15. Two schools took place:

- Ecole CIMPA : Calcul formel, algèbres non-associatives et applications, Senegal.
- School: Introduction to Number Theory, Cryptography and related courses, Senegal.

##### b) IMU-Simons African Fellowships Program

From the 8 visits awarded in 2020, 1 has been cancelled, 3 have taken place:

	<i>Awardee</i>	<i>Host</i>
Sudan	Layla Sorkati	Ban Dubravka, USA
Nigeria	Adewale Lukman	Golam Kibria, USA
Nigeria	Deborah Ajayi	Ulrike Tillmann, UK

Four of the visits awarded in 2020 and three of the visits awarded in 2019 are still pending. During 2021, GSC has evaluated 7 applications and awarded 6, the only visit scheduled for 2021 has been postponed, the rest are scheduled for 2022.

##### c) Individual Travel Support Program

From the 5 visits awarded in 2020, only has taken place:

	<i>Awardee</i>	<i>Host</i>
Iran	Minoo Kamrani	Erika Hausenblas, Austria

During 2021, GSC has evaluated 2 applications both awarded and scheduled for 2022.

Note: On September 21, 2021 Alf informed CDC about the GSC proposal of including a letter of commitment from the academic host as a requirement for applications to ITS and Simons Africa Programs. This suggestion had CDC support.

**d) Abel Visiting Scholar Program**

The selection committee has evaluated three calls (December 2020, April and August 2021), has received 3 applications and awarded 3 scholarships:

<i>Awardee</i>	<i>Host</i>	
Bootan Rahman, Irak	Sue Ann Campbell, Canada	Postponed
Banafsheh Akbari, Iran	Costantino Delizia, Italy	In progress
Ikha Magdalena, Indonesia	Dominic Reeve, UK	Scheduled for 2022

The 3 visits awarded in 2020 are still postponed and one of the visits awarded in 2019 (and scheduled for 2020) took place in 2021.

**Selection Committee Members.**

The IMU Executive Committee communicated the decision concerning the two members of the Selection Committee for the Abel Visiting Scholarships Program that were pending of EC's appointment. The decision has been:

- a) To appoint Mouhamed Moustapha Fall (AIMS, Senegal) to succeed Carlos Di Prisco (IVIC, Venezuela) till August 31, 2024.
- b) To extend my term as chair of the Committee till December 31, 2022. (The end of my term as CDC Secretary for Policy)

**e) Volunteer Lecturer Program**

The selection Committee has awarded the 10 applications received in the calls of September and December 2020, March, June and September 2021, that are the following:

Three visits that have taken place in 2021:

- Calistus Ngonghala (USA) visited IMSP, Benin (4.736 + 3.000 = 7.736€).
- Chris Thron (USA) visited U. Dschang, Cameroon and Illorin U. Nigeria (4.000 + 330 = 4.330€).

The host institutions have received support for books and/or material needed for online teaching.

Three visits approved in 2020 and still pending:

- Raymond N. Greenwell (USA) to visit U. Nacional Autónoma de Honduras,
- Sahibzada Waleed Noor (Brazil) to visit COMSATS U. Islamabad, Pakistan
- Joaquim M.C. Correia (Portugal) to visit Caraga State U. Philippines

Four visits approved in 2021 and scheduled for 2022:

- Chris Thron (USA) to visit University of Lagos, Nigeria, University of Ngaoundere, Cameroon and Alzaiem Alazhari University, Khartoum, Sudan.
- Fabrizio Ruggeri (Italy) to visit Universidad Nacional Autónoma de Honduras.

## f) Breakout Graduate Fellowship Program

### ·2021 Call

The nomination process opened on February 1, 2021. Due to the exceptional circumstances caused by the Covid-19 pandemic the deadline has been extend to July 3, 2021. A total of 14 applications have been received. The awardees are:

Awardee Surname	Awardee First Name/s: (as appearing in passport)	Gender	Nationality	Start of the Fellowship	Number of years awarded	Amount/year (USD)
Duong Thi	Hong	Female	Vietnam	1/10/21	1	\$4.700,00
Nguyen	Hang	Female	Vietnam	1/10/21	3	\$6.600,00
Phiri	Avulundiah Edwin	Male	Zambia	1/10/21	2	\$7.000,00
Jose	Sayooj Aby	Male	India	1/10/21	3	\$4.500,00
RENALD	Edwiga Kishinda	Female	Tanzania	1/10/21	3	\$2.000,00
Owolabi	Abd-semii' Oluwatosin-Enitan	Male	Nigeria	1/10/21	3	\$7.000,00
Tung	Trinh	Male	Vietnam	1/10/21	3	\$7.100,00

### ·Previous Calls

Students from previous calls have provided satisfactory reports in due time and their fellowship has been renewed; student Namaya (2020 call) has obtained support from her co-advisor research project to continue her research during a year at Glasgow and has interrupted her BFG grant for that period. Student Taiwo (2019 call) has obtained his PhD degree in June 2021.

### ·Donation

Takuro Mochizuki, the 2021 Breakthrough Prize in Mathematics recipient, has donated USD 100.000 to the program.

### ·2022 Call

In FIMU's Board Meeting held on November 9, 2021 it has been accepted Olga's proposal of maintaining the 2022 Budget of the Program in order to offer up to 4 new grants (USD 40.000) in the 2022 Call.

**g) Graduate Research Assistantships in Developing Countries (GRAID) 2021 Call**

The GRAID Committee has evaluated Round 5 of GRAID with deadline March 15, 2021 and selected for funding the following projects:

Group from Nepal with PI Kedar Uprety and IP Naveen Vaidya (USA) supporting two additional students Khagendra Adhikari (PhD) and Ramesh Gautam (PhD).

Group from Cameroon with PI Gideon Ngwa and IP Miranda Teboh-Ewungkem (USA) supporting one additional student Njongwe James Agheyih (PhD).

Group from Congo with PI Basile Bossoto and IP Christian Marie (France) supporting one student Roslan Ibara Ngiza Mfumu (PhD).

Group from the Philippines with PI Aurelio de los Reyes and IP Stacey Smith (Canada) supporting one student Marvin Jay H. Quiapo (MS).

Group from Ghana with PI Jefferey Ezeam and IP Ihechukwu Chinyere (UK) supporting one student Charles Kokoroko (MS).

The Committee has also considered the renewal of grants awarded in previous calls. The complete report received from Angel Pineda (Secretary of the GRAID Committee) is included as Annex.

**h) Project Support Program**

The 2021 call has been open from February 1 till May 30, 2021. CDC has received 7 applications for Project Support. After evaluation by CDC, the following 5 applications have been awarded:

MARM Program of the London Mathematical Society	7.000€
Doctoral Supervisor Capacity Development in Academic Statistics, South Africa	5.000€
Innovative Educational Project 2021 for the Enhancement of Differential Calculus Teaching and Learning Quality in Undergraduate Programme in Indonesia	5.000€
International Mathematics Master, Pakistan	5.000€
Master 2 program, Burkina Faso	5.000€

List of Annexes

Attached

- Summary\_DEC2021\_IMU/CDC-ICTP.pdf

Uploaded to CDC internal

- Folder "CDC Programs (2021)"
- BGF Report 2021

- 2021 GRAID Reports