

Working Group Report

Masterclasses to New Countries

<http://tiny.cc/x9knsy>



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Introduction to “MC2NC”

- 7th IPPOG meeting in Zeuthen has “Masterclasses to developing countries” working group
- Became a standing WG afterward:
Masterclasses-to-New-Countries
- What we do: Boldly go where masterclasses have not gone before and *take root* to add to IMC
- Bootstraps off existing programs, e.g. Physics Without Frontiers; now can get some IPPOG funding through IMC

New countries in IMC18

Bulgaria: Started by new IPPOG representative + co-workers Atanas, Teddy, Roumyana and Boyka

Lithuania: Contacted us in the process of becoming an associated member state at CERN

Qatar: President of Qatar Physics Society contacted us in March 2017

Bosnia and Herzegovina: Started by particle physicist in Split, Croatia (2h drive)



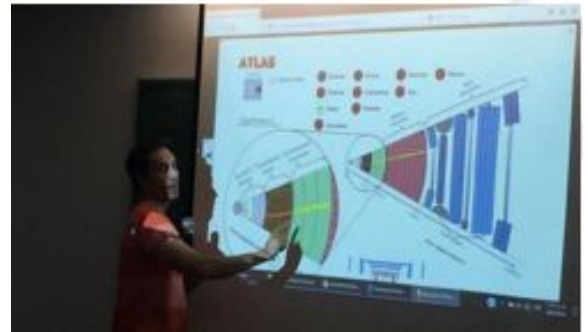
New countries in IMC18

Peru: Peruvian Particle Physicist contacted us (and asked for funding for travel), involved in MC before

Iran: PostDoc (formerly at U. Notre Dame) + CMS user in Tehran started the program

India: Ravjeet Kour (PhD in Particle Physics), now lecturer in UK, travelled to India

Uruguay: Facilitated by Carlos Sandoval (Univ. Bogotá), “Latin America initiative”



Interest in IMC19

Algeria: Essma Redouane, theoretical physics lecturer in M'sila university. *“I and my colleagues would like to organize masterclass in our university in the profit of our physics students. We have already organized a successful Masterclass back in May 2013, at that time it was animated by two CERN's PostDoc.”*

Costa Rica: Johan Bonila (ATLAS) would like to bring Masterclasses to his family's home-country. *“There are (as far as I know) 3 costaricans working at CERN and we've talked about joining efforts to carry out an event like this in CR.”*

Recent Visits

Mexico

- Universidad Iberoamericana plus Mexico City schools
- Colima → new MC location this week

Peru

- Lima and Trujillo

Malta



Upcoming Visits

Chile

- Pontificia Universidad Catolica plus schools south of Santiago
- And Junin de los Andes, Argentina → due to Teacher Weeks at CERN

Namibia

- Windhoek → teacher workshop, UNAM, high school workshops
- Graduate student masterclass
- Part of African School of Fundamental Physics and Applications

Strategy going forward

Main topic of WG discussion at IPPOG XV

What we have been doing:

- Follow-up with teachers with whom we have worked
- Reach groups and countries under-represented in HEP
- Use existing connections
- Follow opportunities
- Target countries that have growth potential, e.g. India

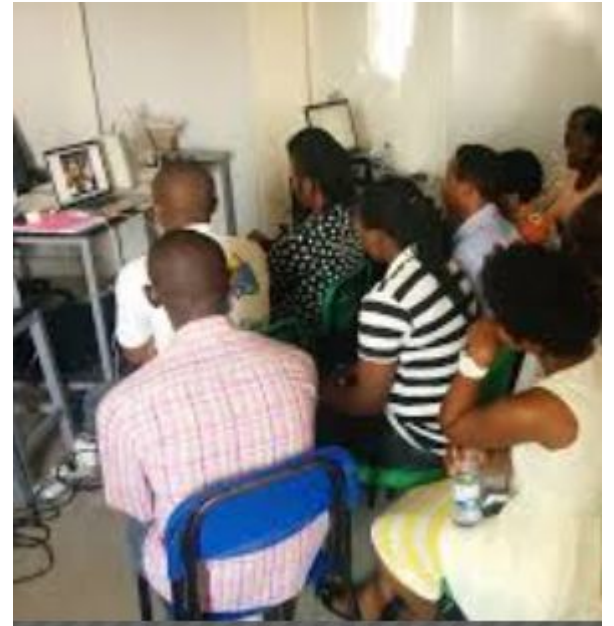
Strategy going forward

Preferred conditions:

- Connection with someone who can carry masterclasses forward
- Sufficient infrastructure

Goals:

- Spark interest
- May vary with audience, conditions
- Foster international collaboration and use to attract students to STEM



Strategy going forward

Additional approaches:

- More active dissemination in professional meetings, e.g. EPS, APS, etc.
- Work with colleagues in and out of HEP

Special Strategy

- Promote Belle II masterclass → open to KEK, associated institutes
- Moderators at KEK; English, Japanese
- Organically add ATLAS, other measurements

