

Masterclasses-to-New-Countries, IPPOG@25

<https://www.physicsmasterclasses.org>



MC2NC meeting, Monday 24 Oct 2022

Present:

- Uta and Ken
- Krzysztof Wozniak
- Yiota Foka
- Kazuo Tanaka
- Miki Ohtsuka
- Despina Hatzifotiadou
- Steven Goldfarb
- Pedro Abreu
- Roumyana Mileva Hadjiiska

Agenda:

- Reports on activities
- Bee Kee
- Discussion

Remote via Zoom

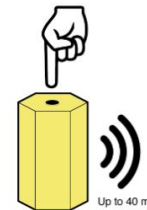
Masterclass-in-a-Box? **Bee Kee** presentation...

Sergio Estupinan, Bee Kee, Geneva

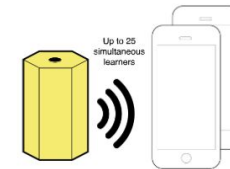
- Non-internet wifi hub for up to 25 users (700-1000 USD)
 - Resources for masterclass on hub SD card, 128-256 gb
- Or mobile network connected hub (900-1200 USD)
 - Resources for masterclass via we
- IMC interested in one for evaluation



How it works



1. Quick start



2. All onboard



3. Make learning happen!

IMC-in-Africa 1

Pedro brought masterclasses to
Cape Verde and Mozambique

- Connected to *Conferência de Física dos Países de Língua Portuguesa*, September 2022
- Hopefully to join IMC 2023



IMC-in-Africa 2

Shane Wood (QuarkNet staff) and Ken will facilitate:

- Teachers Program
 - Up to 80 teachers, 28 Nov-3 Dec
 - Plan Higgs@10, MINERvA and LHC masterclass measurements
- Learners Program
 - Up to 100 HS learners per session, 9 x 3 hr sessions, 5-9 Dec
 - Plan pre-masterclass activities, special very light masterclass
- Collaborate with Eastern Cape Department of Education

at African School of Fundamental Physics and Applications, Gqeberha (Port Elizabeth), South Africa

Experiments expand:

- Belle II
 - new masterclass opportunities in Japan and U.S.
 - Key facilitators: Rok, Jake Bennett, University of Mississippi
- Particle Therapy
 - coming to China, especially Shanghai
 - Key facilitators: Yiota, Chris Hurley



From Bulgaria: IMC and mainstream education

In 2022, for the first time, CMS masterclass included in full-time education in one Bulgarian high school: National High School of Mathematics and Natural Sciences

- final-year high school students, 2 classes, 55 students in total
- Organized in three sessions, 3 hours each (3 consecutive weeks)
- a week per each: lecture + demo + discussion, ~3 student teams
- Well received, high interest, side topics on particle physics & cosmology
- Another set of 2 classes will follow the master classes in February, 2023