WP6: Outreach and Communication International Masterclasses Inspiration from IPPOG

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Jennifer2 Kick-off 13 Sep 2019

WP6

No	Task	Deliverable	Month
6.1	Masterclasses on flavour and neutrino physics	Belle II/T2K masterclasses organization in JENNIFER2 Belle II institutions	36/48
6.2	Summer School for physics students at KEK	2 summer student institutes at KEK	24/48
6.3	General public science communication	Outreach web portal with links to outreach events of JENNIFER2 institutions	24
6.4	PhD thesis co- supervision	Co-supervision of PhD students seconded for longer periods	48

International Masterclasses IPPOG's Flagship

- High school students (15 19) are "scientists for one day"
- Get invited to a research institute or university
- Introductory talks (standard model, detectors, accelerators)
- 2 h measurement with real experimental data
- International video conference (2
 5 inst. + CERN/Fermilab)





What's IPPOG? (H.P. Beck)

- an established successful outreach and education group with many activities and the International Masterclasses as its flagship
- provides tools & activities ready to be implemented at your institute
- expanding internationally
 - >20 countries, 5 experiments, 1 lab
 - discussions with more new countries ongoing
- More at: http://ippog.org
- See slides from the last general meeting in May
 - https://indico.cern.ch/event/767060
- Next GM (Open) 28-30 November 2019 at CERN

IMC19: the whole picture (Ken Cecire)



7.3. - 16.4.2019

- + satellite dates
- + Spanish VCs (to accomodate all needs)

54 countries involved





Coord.: QuarkNet / TU Dresden

- 51 institutes (48)
- 54 LHC Masterclasses (50)
 - 22 ATLAS (19)
 - 32 CMS (31) (Incl. TRIUMF program)
- 12 MINERvA Masterclasses

- 188 institutes (177)
- 266 LHC Masterclasses (257)
 - 30 ATLAS W (35)
 - 101 ATLAS Z (104)
 - 64 CMS (58)
 - 41 LHCb (39)
 - 27 ALICE SP (18)
 - 3 ALICE R_AA (3)

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IMC: experiments

- Running
 - * LHC (ATLAS, ALICE, CMS, LHCb)
 - ◆ MINERvA
- Under development
 - Belle II
 - MicroBooNE
 - Particle Therapy
 - IceCube
 - LIGO/Virgo
 - SESAME

T2K: should show up here!

How to get new IMC topic through

- Documentation
- Pilot run
- Steering group approves
- Can run as MC before
- * ?Spring campaign stays for LHC?
- * ?New autumn campaign to be launched for non-LHC experiments?
- Data, not Monte Carlo!





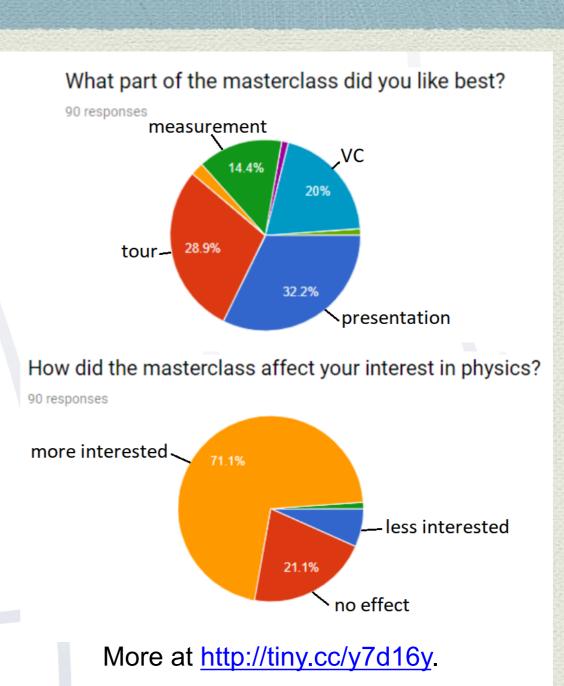
hands on particle physics

International Masterclasses Steering Group

Approval of measurements

Neutrino Masterclasses

- MINERVA
 Masterclass –
 passed tests and
 part of IMC2019
- MicroBooNE –
 expected for IMC2020
- Plans and inquiries for more



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Thanks!