



LHCb

ATLAS

CERN Meyrin

CERN Prévessin

SPS 7 km

PS 6.28 km

ALICE

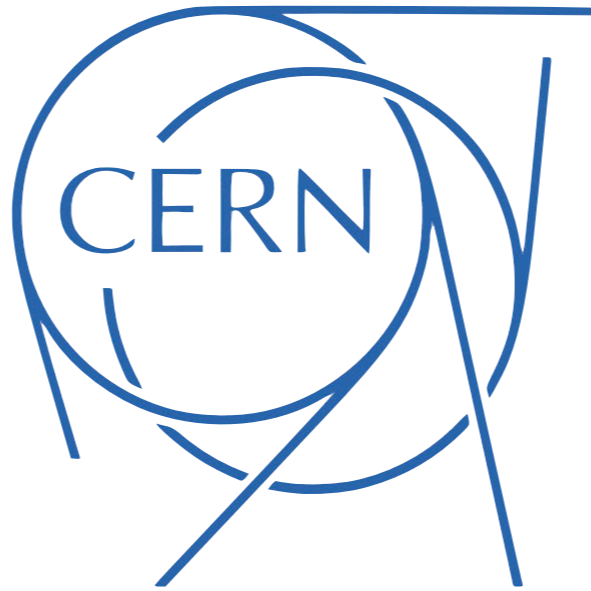
SUISSE
FRANCE

CMS

WG1: How to bring Particle Physics
Masterclasses to developing countries?

Konrad Jende, High School Teacher Programme 2014

LHC 27 km



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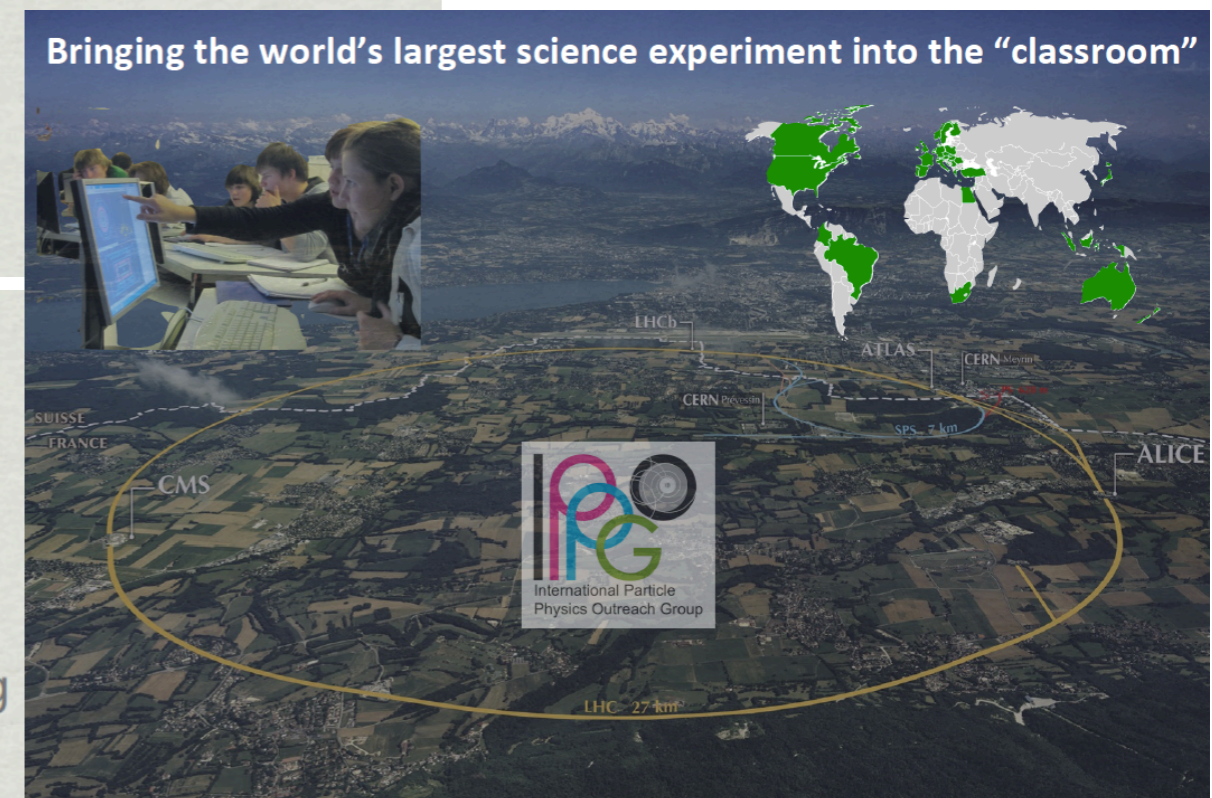
Concept of Masterclasses

* Concept

- * Students (15 -19 years old) spend 1 day at research institute,
- * experience science from scientists “The Master” and
- * carry out measurements based on analyses of real data from particle physics experiments,
- * discuss their results with colleagues
- * basic idea from UK (1996, Roger Barlow et al.)

* Objectives

- * stimulate students interest in physics
- * demonstrate scientific research process
- * let students explore fundamental forces and building blocks of matter
- * offer authentic experience



Concept of Masterclasses

- ✱ **Event** - create an International Collaboration among students (together with U.S. partner QuarkNet)
- ✱ ~4 weeks period in March every year
- ✱ 130 (+30 from U.S. partner) institutes from 37 countries
- ✱ central organization at TU Dresden: Michael Kobel and Uta Bilow
- ✱ Website: <http://www.physicsmasterclasses.org>

■ # of participants in International Masterclasses

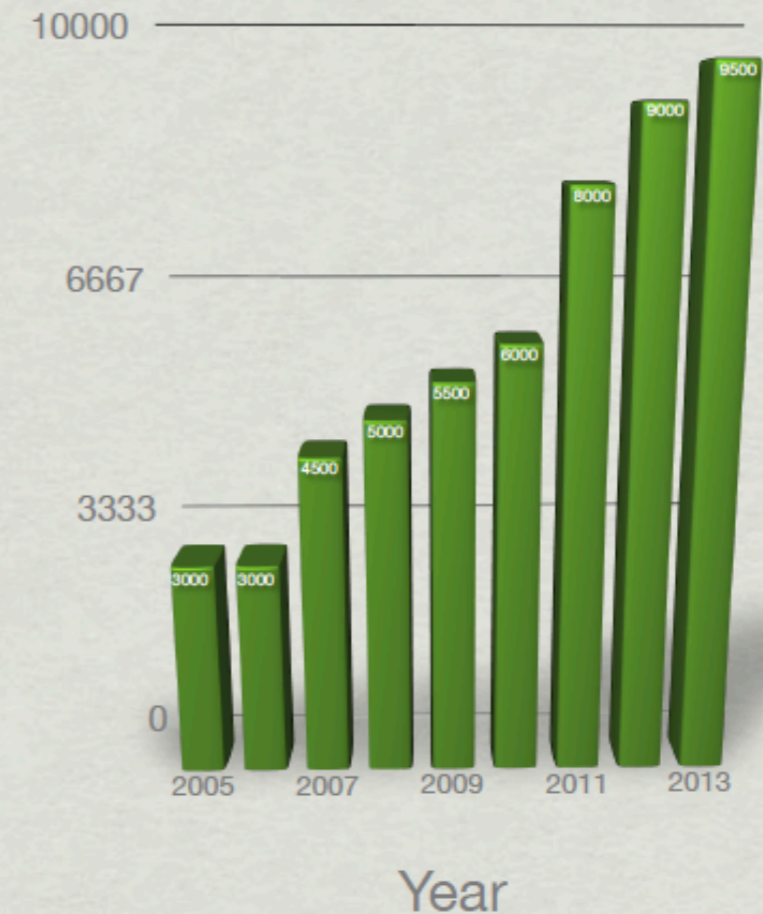
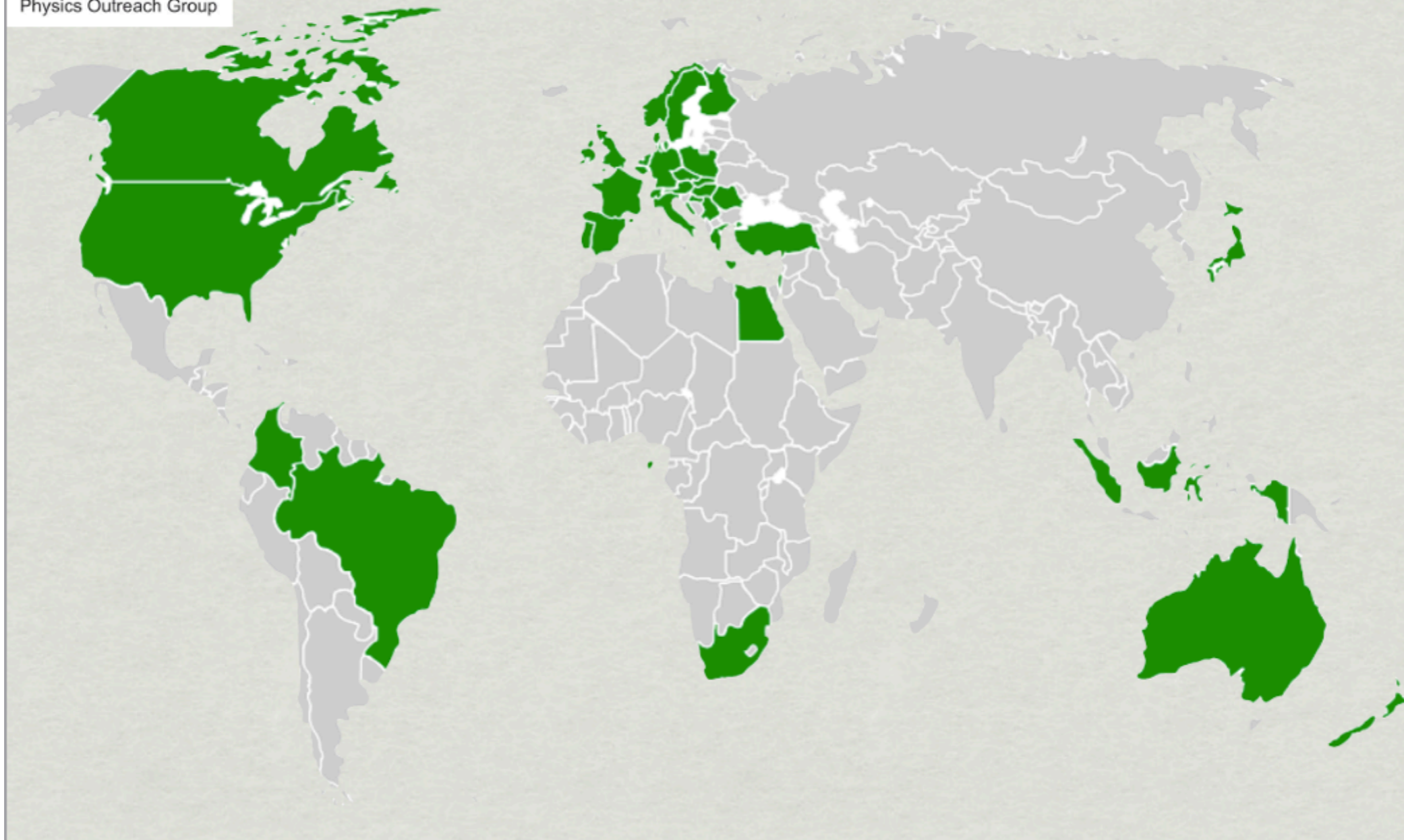


Fig. 2 - Number of participants in International Masterclasses over the years

Where to chart area?



IPPOG's International Masterclasses



Working group leaders, 1st meeting

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- Abha Eli Phoboo: abha.eli@cern.ch

- 1st meeting will be scheduled soon

Gracias



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