INTERNATIONAL MASTERCLASSES HANDS ON PARTICLE PHYSICS

International Day of Women and Girls in Science

Uta Bilow IMC SG meeting Lisbon 20.04.2017





hands on particle physics

Background

- UN: gender equality is a core issue
- Dec 2015: General assembly adopted a resolution → establish an International Day to recognize the critical role women and girls play in science and technology communities
- Several UN organisations proclaimed Feb 11th of each year the International Day of Women and Girls in Science <u>www.un.org/en/events/women-and-girls-in-science-day/</u>
- Aim: Support and promote the access of women and girls to science education and research activities



Activities by IPPOG

- Decision at Nov16 meeting: launch MCs for girls on 10./11.2. (Fri/Sat) <u>http://physicsmasterclasses.org/index.php?cat=women_in_science</u>
- 9.12.: circular to all IMC institutes http://www.physicsmasterclasses.org/downloads/Circular2016_12_09.pdf
- 11 signed up, 1 cancelled on short notice
- → 10 MC, 3 videoconferences

| Fri, 10.2., VC1 | Fri, 10.2., VC2 | Sat, 11.2., VC1 |
|------------------|-----------------|-----------------|
| U. Paris Diderot | Madrid CIEMAT | Rio de Janeiro |
| Cosenza | Rio de Janeiro | Heidelberg |
| Czech TU Prague | Cagliari | Sao Paulo |
| IFAE Barcelona | | |

ATLAS W
ATLAS Z
LHCb
CMS

Webpage: http://physicsmasterclasses.org/index.php?cat=women_in_science



Focus on Women and Girls

• all Videoconferences with female moderators



- Female lecturers and tutors, as much as possible
- ~ 320 girls (between 7 and 98 per institute)



4

Program in Barcelona

- 40 girls
- Visit to the tier-1 data center PIC
- On Saturday: astroparticle Masterclass (Gamma Ray Hunters) for girls
- <u>http://girlsinscience.ifae.es/</u> (Catalan)





Fellow of CERN,

va so: Post Doc a

TA: al grup de

A l'IFAE les investigadores fan recerca en els temes més candents de la

física, des de les partícules fins al cosmos

westigadora

evestida di anto de

smologia de l'IFAE.

nvestigadora a NFAB

vestiga o

rolessora associ UAB treballa a la Neutripo Lerge o Texperiment AltAS de RHC











20.04.2017

... in Cosenza

- 30 girls from high-schools plus few young university students
- All presentations by female scientists



- Extra talk: Le donne nella ricerca (information on situation of women and girls in science in Italy and around the world)
- "It was a fantastic day!"<u>https://agenda.infn.it/conferenceDisplay.py?confld=12775</u>
- Council of Physics acknowledged 11 February as a special day of the Physics Department dedicated to girls, in agreement with the UN Resolution, for the next years



Impressions from APC Paris

- 24 high-school students
- 2 young female researchers (PhD student/engineer) introduced themselves to the girls, told about their professional path and joined us for lunch to discuss informally with the participants
- "The girls were enthusiastic"
- "hope to have a chance to participate again in the future"

<u>https://indico.in2p3.fr/event/14122/</u>







20.04.2017

... and from CTU Prague

- No general understanding in Czech republic that we need to make special action for women or girls → difficult to announce and promote event
- 14 girls from high-schools + 5 girls from first year of university studying particle physics
- Discussion about gender issues in science
- Visit at silicon detectors laboratory
- Unexpected great attention from media
 - 2 long articles in Czech newspapers
 - Czech public television sent a reporter with a team (TV news at 17:00)
- <u>https://mc.casticova-fyzika.cz/13-2017/30-2017-masterclasses-prostudentky-strednich-skol</u>







20.04.2017

Conclusions

- Pilot with 10 institutes and 320 girls
- Participating institutes very satisfied
- Gender issues were covered locally
- → Successful, repeat in 2018
- → Organisation should start earlier (but avoid mixing up with IMC18)
- → More publicity would be nice, e.g. webpage resuming CERN activites or a more general webpage

