

International Particle Physics Outreach Group

Outreach Educational Activities in Latinoamerica

Yiota Foka (GSI)
Ruben Alfaro (UNAM)
IPPOG video-meeting 7 May 2020

THE First PTMC in IMC

THE First in arxiv 6 may: https://arxiv.org/abs/2005.02215

Mexico City UNAM, more than 100 students

Antonio Ortiz Velasquez, Guy Paic, Physics Luis Alberto Medina Velazquez, Medical Physics web page

http://epistemia.nucleares.unam.mx/web?name=fisica_y_sociedad_2020 Indico_timetable

https://indico.nucleares.unam.mx/event/1363/timetable/#20200302

Article in the UNAM Gaceta

https://www.gaceta.unam.mx/clase-maestra-de-fisica-a-jovenes-de-bachillerato/





Puebla, BUAP

Irais Bautista Guzman webpage

https://www.fcfm.buap.mx/ParticulasElementales/seminarios/PT/index.html

Last minute readjustments due to strike Still about 50 students (20 female)

On youtube

https://youtu.be/pqx1Gj28GBE







PTMC in MXC 2nd March 2020





Un día de para la física sociedad



Un día de física y su impacto en la sociedad

2 March 2020 ICN-UNAM, IF-UNAM

Overview

Timetable

Contribution List

Author List Speaker List

Registration

Registration Form

Participant List

Photos

Participant List

PTMC in MXC 2nd March 2020

Number of participants: 104

€name	institution	position	city	country/region
AGUILAR ARÉVALO, Alexis	ICN, UNAM		Mexico	Mexico
ALENCASTE DESACHY, David Antonio	CCH Sur	Estudiante (BECA 100%)	Mexico	Mexico
ANIMAS AVILA, Yessica Alejandra	Colegio Anglo Mexicano Coyoacán	Estudiante (BECA 100%)	Mexico	Mexico
ARREDONDO HERNÁNDEZ, Jesús Enrique	Escuela Nacional	Estudiante	Mexico	Mexico

Closed registration reaching max capacity of auditorium (100 students) 2x25 groups for hands-on



















Hands-on: a strong experience





- We could not see how physics relates with medicine
- When listening at the lectures in the morning we could not believe that in the afternoon we would be able to handle treatment planning and with such accurate results

After the PTMC event Moderation centre for Latinoamerica

PTMC Online Tutorials for Latinoamerica

After the 2 March PTMC in MXC plans on the spot

Mexico city, UNAM: support and moderation centre to spread PTMC/IMC in Latinoamerica

PTMC in Latinoamerica on 22 May 2020 BUT.... we went online.....

Contacts already via UNAM (Ruben):

Guatemala, Honduras

Organise groups of students/tutors practical, logistics, venue, equipment, transport

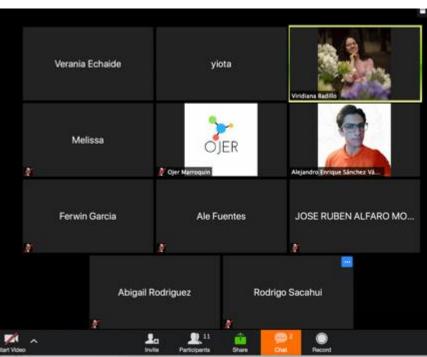
To come:

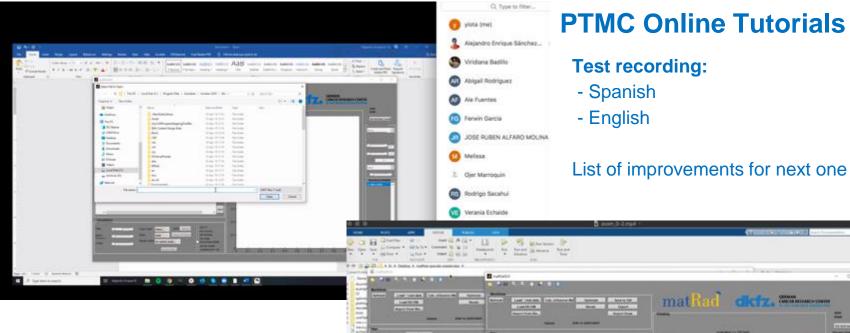
Venezuela, Costa Rica, El Salvador, Chile...

Online tutorials on zoom by UNAM tutors

- Itzel Viridiana González Badillo
- Alejandro Enrique Sánchez Vázquez

With Guatemala and Honduras





Tested even via a mobile phone:

from mobile phone on a laptop screen

Material in google drive

https://drive.google.com/drive/folders/1u7okYFTIIFmiWLj_uLN0PDedyGk9DJtE





PTMC Plans in Mexico

To also target:

- under-privileged areas
- female students
- teachers

For Uni students

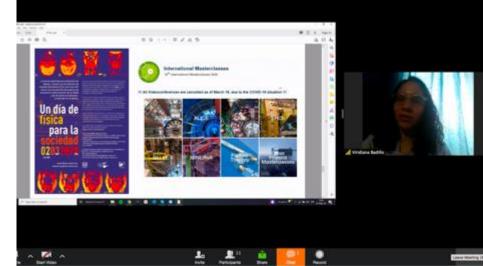
Social Media: (and witnesses!) volunteers for twitter, facebook, instagramm

Important: material in Spanish

Important: personal support for new-comers

Challenges: lack of equipment (PC, laptop...) remote places, long walking distance from school, difficulties of female students, most school-children (students) not speaking english...

Give opportunities, new talents!



Masterclass' impact on choise of topics of studies

Viridiana Badillo

Biomedical Systems Engineering Student @ UNAM.

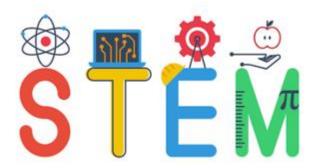
Alejandro Enrique Sánchez

Mechatronics Engineering Student @ UNAM.

From participants to collaborators

Attendees of IMC were attracted by Science, Technology, Engineering and Math careers.

It was definitely our case



It is inspiring to young students.

This could mean more professionals in STEM topics

Noteworthy fact:

now we collaborate in UNAM with our MC tutor
Antonio Ortiz Velasquez



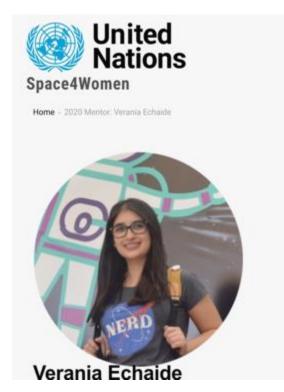
From participants to collaborators

MasterClass for female high-school students in Mexico

PROJECTS

- "Space 4Women" as mentor Representing North America and the Caribbean. The United Nations Office for Outer Space Affairs (UNOOSA). 2020
- "Scientific Empowerment Camp" as mentor, jury and manager.

 National Institute of Optical and Electronic Astrophysics INAOE. 2019
- "Women into Space" as mentor.
 Mexican Space Agency. Since 2019



Employment and Education

- Finishing the MSc in Physics Education, Physics and Science Communication, B from UNAM
- Working for the Mexican Space Agency, Industrial Development Coordination, Since 2015



