

# **INTERNATIONAL MASTERCLASSES 2021**

# Despina Hatzifotiadou INFN Bologna

ALICE mini week – 19 April 2021



### INTERNATIONAL MASTERCLASSES HANDS-ON PARTICLE PHYSICS

Most masterclasses were held online, with high-school students at home One case when students were at school: Saint Petersburg

Some institutes split the masterclass activities over two days

Strangeness masterclass : web-based version developed and used (no need to install softare, ROOT / virtual box,...) thanks to Piotr Nowakowski  $R_{AA}$ : Jupyter notebooks used

End-of-day videoconference: zoom webinar; moderators at home; kahoot quiz



Virtual visit to ALICE ARC + cavern for many masterclass events

## OF March 2004

11 February – 25 March 2021						
	Tue, Feb 16	Fri, Mar 05	Sat, Mar 13	Wed, Mar 17	Wed, Mar 17	Mon, Mar 22
	VC 2: ALICE	VC 2: ALICE	VC 1: ALICE	VC 2: ALICE	VC 3: ALICE R <sub>AA</sub>	VC 2: ALICE
	Anders	Despina	Despina	Anders	N.N.	Anders
	Grazia	Giacomo	Giacomo	Stefania	N.N.	Despina
	Katharina	Stefania			Frankfurt  Darmstadt GSI	Sonia
	Pavia	Heidelberg	São Paulo USP	Bologna		Saint Petersburg
		_				
	Brussels III	Saint Petersburg	Luanda	EKFE Kentrou		Maynooth
	0 " '				Münster	
	Cagliari	Vienna		Salerno	N.	Bari N
		Trieste		EKFE Khanion		25 ses
		Sarajevo		Trieste		7 vide
				N		~ 800
				Mexico UNAM		ALICE m

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#### INTERNATIONAL DAY OF WOMEN AND GIRLS IN **SCIENCE**



25 sessions 7 videoconferences ~ 800 students



#### INTERNATIONAL DAY OF WOMEN AND GIRLS IN SCIENCE





Informational Day of Wunne and Girb in Science is recognize qual participates and accomplishment of emission destruits. International Period Physics Asternation Control Titod (1997), and the Esperimental High Energy Physics Group of Dopartment of Physics, University of Jamms in cognizing "Hands on Particle Physics Massertones of JUT: International Massertones in particle physics provide staters the coperation to discourt the world of many control to the Control Titod (1997), and th

For students of science studying in senior

secondary or undergraduate classes Are you interested in participating?

Register till 7th Feb., 2021

STUDENTS WILL: Learn about basic research on matter and forces

matter and forces

Perform measurements on real data
from particle Physics experiments

Participate in an international video conference to discuss results

NANCE CHARGE ENTER A STANDARD AND A

University of Jammu: First ALICE Masterclasses in India!!

Czech Technical University (CTU), Prague : ALICE Masterclasses part of a broader event for high-school girls (particle physics, mathematics, quantum technologies, nuclear chemistry

Thessaloniki: ALICE Masterclasses for students at home, lecturers from AUTH, CERN, India

Reports: <a href="https://indico.cern.ch/event/1010808/">https://indico.cern.ch/event/1010808/</a> (February 2021 mini week)





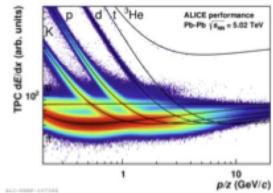
https://indico.cern.ch/event/840212/

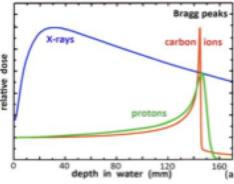
# From fundamental research to particle cancer therapy

Dates: 6, 8, 11, 23, 24, 26 March, 36 institutes, 20 countries, over 1500 students

Some back-to-back with ALICE MC
Virtual visits to ALICE for all of them with ALICE presentations

From Bethe Bloch ionization for PID to Bragg peak for cancer therapy





Yiota Foka