



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

4-12 September 2020, OAC, Kolymbari, Crete

## Welcome



165 participants  
152 oral presentations  
9 poster presentations



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

4-12 September 2020, OAC, Kolymbari, Crete

## COVID-related news and rules

Please read the informations on COVID-19 news and rules at the conference center in the ICNFP 2020 webpage

Latest news: travellers from Russia are allowed to enter Greece from 6 September 2020 on.

Main rules at OAC and Chania are:

masque is obligatory in the Academy (also out of the buildings) and in the region of Chania also in open air

masque is not needed in the restaurants

masque is not needed at the beach

every table in the OAC restaurant must host maximally 4 people

when you go out for a walk, you should not be more than 9 persons staying nearby all together

penalty for missing masque is 150 EU



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

4-12 September 2020, OAC, Kolymbari, Crete

## International Advisory Committee

Charalampos Anastasiou (ETH Zurich, Switzerland)  
Federico Antinori (University and INFN of Padova, Italy)  
Ignatios Antoniadis (LPTHE-CNRS and Sorbonne University,  
Paris, France, and AEC, University of Bern, Switzerland)  
William Brooks (Federico Santa Maria University, Valparaiso,  
Chile)  
Harald Fritsch (University of Munich, Munich, Germany)  
Jie Gao (IHEP, Beijing, China)  
Marco Genovese (INRIM, Torino, Italy)  
Rohini Godbole (Indian Institute of Science, Bangalore, India)  
Sigurd Hofmann (GSI, Darmstadt, Germany)  
Mina Katramatou (Kent State University, Ohio, USA)  
Dmitri Kharzeev (Brookhaven National Lab and University of  
Stony Brook, USA)  
Boris Kopeliovich (Federico Santa Maria University, Valparaiso,  
Chile)  
Shahn Majid (Queen Mary, University of London, UK)  
Victor Matveev (JINR, Dubna, Russia)  
Igor Mishustin (FIAS, Goethe University of Frankfurt, Germany)  
Viatcheslav Mukhanov (University of Munich, Germany)

Rachid Nouicer (Brookhaven National Lab, Upton, New York,  
USA)  
Monica Pepe-Altarelli (CERN, Switzerland)  
Gerassimos Petratos (Kent State University, Ohio, USA)  
Willibald Plessas (University of Graz, Austria)  
Luciano Rezzolla (Goethe University of Frankfurt, Frankfurt,  
Germany)  
Valery Rubakov (INR, Moscow, Russia)  
Peter Senger (GSI, Darmstadt, Germany)  
Boris Sharkov (FAIR and ITEP, Moscow, Russia)  
Eduard Shuryak (Stony Brook University, USA)  
Paris Sphicas (CERN, Geneva, Switzerland, and University of  
Athens, Athens, Greece)  
Leo Stodolsky (Max Planck Institute, Munich, Germany)  
Horst Stoecker (Goethe University of Frankfurt, FIAS, Germany)  
Theodore Tomaras (University of Crete, Greece)  
Emmanuel Tsesmelis (CERN, Geneva, Switzerland and  
University of Oxford, UK)  
Arkady Vainshtein (University of Minnesota, USA)  
Gabriele Veneziano (College de France, Paris, France)  
Valentin Ivanovitch Zakharov (ITEP, Moscow, Russia and MPI,  
Munich, Germany)



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

## Organising Committee

Yakir Aharonov (Tel-Aviv University, Tel-Aviv, Israel and Chapman University, Orange, CA, USA)(Co-Chair)  
Konstantin Astapov (Institute for Nuclear Research of RAS, Moscow, Russia)  
Vipul Bairathi (Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile)  
Yaroslav Berdnikov (Saint Petersburg Polytechnic University, Saint Petersburg, Russia)  
David Blaschke (University of Wroclaw, Poland and JINR, Dubna, Russia)  
Larissa Bravina (University of Oslo, Oslo, Norway) (Co-Chair)  
Somnath Choudhury (Indian Institute of Science, Bangalore, India)  
Laszlo Pal Csernai (University of Bergen, Bergen, Norway)  
Michal Eckstein (Jagiellonian University, Krakow, Poland)  
Alexandra Friesen (JINR, DUBNA, Russia)  
Dmitry Gorbunov (Institute for Nuclear Research of RAS, Moscow, Russia) (Deputy Chair)  
Maxime Gouzevitch (CNRS, IPNL, Lyon, France)  
Nikolay Gulitskiy (Saint Petersburg State University, Saint Petersburg, Russia)  
Sonia Kabana (Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile) (Co-Chair)  
Ekaterina Kriukova (Institute for Nuclear Research of RAS, Moscow, Russia)  
Theodota Lagouri (Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile) Emanuela  
Larentzakis (OAC, Kolymbari, Greece)  
Anton Makarov (Saint Petersburg State University, Saint Petersburg, Russia)  
Sergei Mironov (Institute for Nuclear Research of RAS, Moscow, Russia) (Scientific Secretary)  
Oleksandr Vitiuk, Nazar Yakovenko, Yuriy Kvasiuk (Taras Shevchenko National University of Kyiv, Ukraine)  
Victoria Volkova (Institute for Nuclear Research of RAS, Moscow, Russia)  
Elisaveta Zherebtsova (Moscow Engineering Physics Institute (MEPHI), Moscow, Russia)



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

4-12 September 2020, OAC, Kolymbari, Crete

## Workshops and Sessions

8 September 2020, Workshop on Lattice and Condensed Matter Physics

8-10 September 2020, Workshop on New physics paradigms after Higgs and gravitational wave discoveries

5, 9 and 10 September 2020, Workshop on Higgs Physics

8, 10 and 11 September 2020, Workshop on Physics at FAIR-NICA-SPS-BES/RHIC

9-10 September 2020, Workshop on Heavy Ion Physics

9 September 2020, Mini Workshop on Instruments and Methods in HEP

5 September 2020, Mini-workshop on Machine Learning for Particle Physics

5 September 2020, Workshop on Astro-Cosmo-Gravity

11 September 2020, Workshop on Laser fusion, a spin-off from heavy-ion collisions

5 September 2020, Workshop on QCD: Strong Strong Interaction and different facets of QFT  
(dedicated to 90th anniversary of Vladimir Gribov and 80th anniversary of Lev Lipatov and Aleksey Kaydalov)



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

4-12 September 2020, OAC, Kolymbari, Crete

## Information

- **The program** can be found on the main conference web-page in the “Timetable”  
<https://indico.cern.ch/event/868045/timetable/?layout=room#20200904.detailed>
- **The poster session** will be held on **Monday 7 September 18:40-19:40 in OAC lobby**



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

4-12 September 2020, OAC, Kolymbari, Crete

## **Attention!**

**Please upload your presentation file in the timetable well before your talk Please upload (also) a pdf version of your presentation in the timetable**

**For the poster session.**

**Please make sure to upload the pdf file with your poster in the indico timetable before 7 September or as soon as possible as we should print in in OAC.**



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

## Events 7 September

- **Poster session** (18:40 -19:40)
  
  
  
  
  
  
  
  
  
  
- **Concert of Classical Music per internet.**  
(21:30-22:30)





# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

## Events 8 September

- **Chamber and Greek music, concert per Internet.**

**Artists: Kalliopi Petrou, Soprano, Tommaso Dorigo.** (19:00-20:00)



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

## Events 9 September

- **Public Talk per internet (in English).** (18:45-19:45)
- **Conference Dinner in OAC.** (20:00-23:30)





# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

## Events 10 September

- **Concert per Internet, "Sacred Music".**

**Artists: Kalliopi Petrou, Soprano, Alessia Tofanin, piano. (19:00-20:00)**



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

## Events 11 September

### ■ **Excursion to Chania**

**Departure from OAC and hotels to Chania :  
16:00**

**Walk around in Chania for shopping.**

**Guided tour 1) through Chania Monuments  
(Cathedral, Port, egyptian Phare) and**

**2) through the jewish quarter of Chania and  
the synagogue.**

**Meet in taverna for dinner in the port of  
Chania**

**23:30 departure from Chania.**

---



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

# Enjoy!

4-12 September 2020, OAC, Kolymbari, Crete

