10th International Conference on New Frontiers in Physics

See what happened in these years
ICNFP 2012 (10-16 June)

The First International Conference on new Frontiers in Physics aims to promote scientific exchange and development of novel ideas in science with a particular accent on interdisciplinarity.

The conference was hosted here in the Conference Centre of the Orthodox Academy of Creta, from then on every year.

152 participants
ICNFP 2012 (10-16 June)

Main topics of the conference:

A High Energy Particle Physics
B Heavy Ion Collisions and Critical Phenomena
C Quantum Physics and Quantum Entanglement
D Cosmology, Astrophysics, Gravity, Mathematical Physics

152 participants
2nd International Conference on New Frontiers in Physics

New Frontiers in Physics
ICNFP 2013

28 August-5 September 2013, Kolymbari, Crete, Greece
http://indico.cern.ch/event/icnfp2013

International Advisory Committee

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Valerio Scarani (National Univ. of Singapore, Singapore)
Eduard Shuryak (Stony Brook Univ., USA)
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Conference Chairs

Larissa Bravina (Univ. of Oslo, Norway)
Yiota Foka (GSI, Germany)
Sonia Kabana (Univ. of Nantes and Subatech, France)

Main topics of the Conference

High Energy Particle Physics
Heavy Ion Physics
Superconductivity, Critical Phenomena
Quantum Physics, Quantum Entanglement
Quantum Field Theory, String theory
Cosmology, Astrophysics, Gravity
Mathematical Physics
ICNFP 2013 (28 August-5 September)

Main topics of the conference:
A High Energy Particle Physics
B Heavy Ion Collisions and Critical Phenomena
C Quantum Physics and Quantum Entanglement
D Cosmology, Astrophysics, Gravity, Mathematical Physics

Public talks:
D. DENEGRI, LHC@CERN: from concept to spectacular discoveries in science
Public talk in Greek language: E. TSESMELIS, Chania
G. ZWEIG, Concrete Quarks: The Beginning of the End

More participants, 59 invited speakers

proceedings in European Physical Journal Web of Conferences vol. 71
3rd International Conference on New Frontiers in Physics

New Frontiers in Physics
ICNFP 2014

28 July - 6 August 2014, Kolympari, Crete, Greece
http://indico.cern.ch/event/icnfp2014

International Advisory Committee
Halina Abramowicz (TAU, Tel Aviv, Israel)
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Rohini Godbole (IISc, Bangalore, India)
Elias Kiritsis (APC, Paris, France & UOC, Heraklion, Greece)
Shahn Majid (QML, London, UK)
Angela V. Olinto (UC, Chicago, Illinois, USA)
Valery Rubakov (INR, Moscow, Russia)
Valerio Scarani (NUS, Singapore)
Edward Shuryak (SBU, New York, USA)
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Evangelos Gazis (NTU Athens, Greece)
Emanuela Larentzakis (GAC, Kolympari, Greece)
Stefanis Leontzinis (NTU Athens, Greece & BNL, USA)
Jeremi Niedziela (WUT, Warsaw, Poland)
Maciej Szymanski (WUT, Warsaw, Poland)
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Conference Chairs
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Yiota Foka (GSI, Darmstadt, Germany)
Sonia Kabana (Univ. of Nantes & Subatech, France)

Main topics of the Conference
High Energy Particle Physics
Heavy Ion Physics
Superconductivity, Critical Phenomena
Quantum Physics, Quantum Entanglement
Quantum Field Theory, String theory
Cosmology, Astrophysics, Gravity
Mathematical Physics
3rd ICNFP (28 July 2014 to 6 August 2014)

60th CERN anniversary session

Public talk:
Alvaro De Rujula,
The Higgs, the Vacuum and Nothingness

Public talk in Greek:
Prof. Dimitris Nanopoulos,
Echo from the Beginning of the Universe

proceedings have been published in European Physical Journal Web of Conferences vol. 95

263 participants, 89 invited speakers
4th International Conference on New Frontiers in Physics

New Frontiers in Physics
ICNFP 2015

23-30 August 2015, Crete, Greece
https://indico.cern.ch/e/icnfp2015/

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Emmanuel Thomale (CERN, Geneva, Switzerland & Univ. of Oxford, UK)
Urs Wiedemann (CERN, Geneva, Switzerland)

Main topics of the Conference
High Energy Particle Physics
Heavy Ion Physics
Superconductivity, Critical Phenomena
Quantum Physics, Quantum Entanglement
Quantum Field Theory, String Theory
Cosmology, Astrophysics, Gravity
Mathematical Physics

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ICNFP 2015 (23-30 August)

50th anniversary of Hagedorn's Statistical Bootstrap Model

Year of Light: Spirituality, Science, Music and Light

Public talk:
Prof. Thomas Naumann, *Einstein’s dialog with God*

Public talk in Greek:
Prof. Ηλία Κυρίτση, *Μικροσκοπικές Μελανές Οπές: Ένα νέο παράθυρο στο Σύμπαν*

Proceedings have been published in *European Physical Journal Web of Conferences* vol. 126

198 participants, 50 invited speakers
5th International Conference on New Frontiers in Physics

New Frontiers in Physics
ICNFP 2016

6 - 14 July 2016, Kolymbari, Crete, Greece
http://indico.cern.ch/event/icnfp2016

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Main topics of the Conference

High Energy Particle Physics
Heavy Ion Physics
Superconductivity, Critical Phenomena
Quantum Physics, Quantum Entanglement
Quantum Field Theory, String theory
Cosmology, Astrophysics, Gravity
Mathematical Physics

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5th ICNFP (6-14 July 2016)

a session dedicated to the memory of Guido Altarelli, who would be 75 years 12th July 2016;

a session devoted to V. Gribov's QCD confinement scenario,

a Mini-workshop on "Direct searches for BSM Higgs sector" and

session on Astrophysics, Cosmology and Gravity.

54 invited speakers, 219 participants

Proceedings published in European Physical Journal Web of Conferences vol. 164

Public talk in greek:

Prof. Theodoros Tomaras (University of Crete), Gravitational waves: the confirmation which came 100 years after their prediction

Public talk:

Prof. Vyacheslav Mukhanov (University of Munchen, Germany), Gravitational waves, Cosmic Primordial Radiation and the Origin of the Universe
6th International Conference on New Frontiers in Physics

New Frontiers in Physics ICNFP 2017

17-29 August 2017, Kolymbari, Crete, Greece
http://indico.cern.ch/event/icnfp2017

Main topics of the Conference

High Energy Particle Physics
Heavy Ion Physics, Critical phenomena
Quantum Physics, Quantum Optics, Quantum Information
Cosmology, Astrophysics, Gravity, Mathematical physics

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Workshops
Continuous Variables and Relativistic Quantum Information
Quantum Foundations and Quantum Information
Exotic Hadrons
New Searches in High Energy Particle Physics
Highly Ionising Avatars of New Physics
Correlations and Fluctuations in Relativistic Heavy Ion Collisions
Physics at FAIR-NICA-SPS-BES/RHIC
Future of Fundamental Physics
Noncommutative Geometry at the Forefront of Physics

Special Sessions
QCD
Astro-Cosmo-Gravity
Super Heavy Elements
Physics Education and Outreach
Instruments and Methods in HEP

Memorial Sessions
Walter Greiner
Spartak Belyaev
Helmut Oeschler
Gunther Lovhoiden

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Heavy Ion Physics, Critical phenomena
Quantum Physics, Quantum Optics, Quantum Information
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Anton Makarov (Saint Petersburg State University, Russia)
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Svetlana Vdovkina (Moscow Engineering Physics Institute, Russia)
Victoria Volkova (Moscow University, Russia)
Elezaveta Zhrebchova (Moscow Engineering Physics Institute, MEPhI, Russia)

Workshops
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Quantum Foundations and Quantum Information
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Memorial Sessions
Walter Greiner
Spartak Belyaev
Helmut Oeschler
Gunther Lovhoiden
6th ICNFP (17-29 August 2017)

a session dedicated to the memory of Walter Greiner

First Quantum workshop

106 invited speakers, 375 participants

Proceedings published in European Physical Journal Web of Conferences vol. 182

Public talk in greek:
Jean Iliopoulos

Public talk:
John Ellis
7th International Conference on New Frontiers in Physics

New Frontiers in Physics
ICNFP 2018

4-12 July 2018, Kolyymbari, Crete, Greece
http://indico.cern.ch/event/icnfp2018

Main topics of the Conference
High Energy Particle Physics
Heavy Ion Physics, Critical phenomena
Quantum Physics, Quantum Optics, Quantum Information
Cosmology, Astrophysics, Gravity, Mathematical physics

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Laszlo Pal Csernai (University of Bergen, Norway)
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Dmitry Gorbunov (INR of RAS, Moscow, Russia) (deputy chair)
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Sigurd Hofmann (GSI, Darmstadt, Germany)
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Michal Eckstein (Jagiellonian University, Krakow, Poland)
Shahn Majid (Queen Mary, University of London, UK)
Dmitri Kharzeev (Brookhaven National Lab and University of Stony Brook, USA)
Igor Mishustin (IAS, Goethe University of Frankfurt, Germany)
Viacheslav Mukhov (University of Munster, Germany)
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7th ICNFP (4-12 July 2018)

Lev's Lipatov memorial session

279 participants, 315 oral presentations and 23 poster presentations

Proceedings published in MDPI Universe Special Issue "Selected Papers from the 7th International Conference on New Frontiers in Physics (ICNFP 2018)"

Public talk in Greek by Dr. Despina Hatzifotiadou: Mapping the secrets of the Universe with the LHC

Public talk by Dr. Albert de Roeck: The Status of our Understanding of Neutrinos and Future Prospects
Main topics of the Conference

High Energy Particle Physics

Heavy Ion Physics, Critical phenomena

Quantum Physics, Quantum Optics, Quantum Information

Cosmology, Astrophysics, Gravity, Mathematical physics

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Igor Mishustin (Goethe University of Frankfurt, FIAS, Germany)
Viatcheslav Mukhanov (University of Munich, Germany)
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Monica Pepe-Altarelli (CERN, Switzerland)
Gerassimos Petratos (Kent State University, Ohio, USA)
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Luciano Rezzolla (Goethe University of Frankfurt, Germany)
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Elisaveta Zhrebcheva (Moscow Engineering Physics Institute (MEPHI), Russia)
Memorial Session for Murray Gell Mann

Round Table on Future of Fundamental Physics

275 participants, 23 poster presentations, 352 oral presentations

Proceedings published in Focus Issue of Physica Scripta journal, IJMPA, IJMPE and MPLA

Public talk by Prof. V. Mukhanov: How predictive cosmological theories are?
9th International Conference on New Frontiers in Physics

New Frontiers in Physics
ICNFP 2020

27 July to 7 August 2020
Kolymbari, Crete, Greece

https://indico.cern.ch/e/icnfp2019

Main topics of the Conference

High Energy Particle Physics
Heavy Ion Physics, Critical phenomena
Quantum Physics, Quantum Optics, Quantum Information
Cosmology, Astrophysics, Gravity, Mathematical physics
9th ICNFP (4-12 September 2020)

Workshop on QCD dedicated to 90th anniversary of Vladimir Gribov and 80th anniversary of Lev Lipatov and Aleksey Kaydalov

Extended ICNFP 2020 online session on the 21/22 September 2020

157 participants 146 oral presentations 6 poster presentations

Proceedings published in Focus Issue of Physica Scripta journal, IJMPA, IJMPE and MPLA

Public talk by Prof. Eliahu Cohen: All you need is uncertainty
246 participants, 234 oral presentations, 24 poster presentation
Proceedings will be published in Focus Issue of Physica Scripta journal, IJMPA, IJMPE and MPLA
Public talk by Prof. Rashid Sunyaev: SRG Orbital Observatory: X-Ray map of the Universe with a million accreting supermassive black holes
10th International Conference on New Frontiers in Physics

New Frontiers in Physics
ICNFP 2021

23.08-2.09 2021
Kolymbari, Crete, Greece

https://indico.cern.ch/e/icnfp2021

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