

4th International Conference on New Frontiers in Physics

# New Frontiers in Physics ICNFP 2015

Crete, Greece

# Welcome!



# New Frontiers in Physics ICNFP 2015

Crete, Greece

## International Advisory Committee

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Urs Wiedemann (CERN, Switzerland)



# New Frontiers in Physics ICNFP 2015

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## Conference chairs

**Larissa Bravina** (University of Oslo, Norway)

**Yiota Foka** (GSI, Germany)

**Sonia Kabana** (University of Nantes and Subatech, France)

## Local organizing committee

**Evgeny Andronov** (Saint Petersburg State University, Russia)

**Panagiotis Charitos** (CERN, Switzerland)

**Laszlo Csernai** (UiB, Bergen, Norway)

**Nikolay Gulitskiy** (Saint Petersburg State University, Russia)

**Malgorzata Anna Janik** (WUT, Warsaw, Poland)

**Nikos Kallithrakas** (TU, Chania, Greece)

**Alisa Katanaeva** (Saint Petersburg State University, Russia)

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**Emanuela Larentzakis** (OAC, Kolymbari, Greece)

**Stefanos Leontsinis** (National Technical University of Athens, Greece)

**Patricia Mage-Granados** (conference secretary, CERN, Switzerland)

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**Dmitrii Neverov** (Saint Petersburg State University, Russia)

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**Inna Shustina** (Kiev, Ukraine)



# New Frontiers in Physics ICNFP 2015

Crete, Greece

Updates of program



## 4th International Conference on New Frontiers in Physics ICNFP2015

23-30 August 2015  
Europe/Athens timezone

Home

Poster

Scientific Program

Invited speakers

50th anniversary session of  
Hagedorn's Statistical  
Bootstrap Model

Organisation

Venue

Accommodation

Timetable

Poster session

Important Dates

### [4th International Conference on New Frontiers in Physics](#)

**23 August - Arrival day and Lectures**

**24-30 August - ICNFP2015 Conference**

The **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 will bring together worldwide experts and promising young scientists working on experimental and theoretical aspects of particle, nuclear, heavy ion and astro-particle physics and cosmology, with colleagues from other disciplines, for example solid state physics, mathematics, mathematical physics, quantum optics, quantum entanglement and other.

**This year one of the sessions will be devoted to the 50th anniversary of Hagedorn's Statistical Bootstrap Model, the Centenary of Einstein's General Theory of Relativity and the International Year of Light.**

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## 4th International Conference on New Frontiers in Physics ICNFP2015

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Europe/Athens timezone

- Home
- Poster
- Scientific Program
- Invited speakers
- 50th anniversary session of Hagedom's Statistical Bootstrap Model
- Organisation
- Venue
- Accommodation
- Timetable
- Poster session
- Important Dates
- Participant List
- Payments and Support

< Sun 23/08 Mon 24/08 Tue 25/08 Wed 26/08 Thu 27/08 Fri 28/08 Sat 29/08 Sun 30/08 >

Session legend

Lectures  Lectures

14:00

**The Constituent-Quark Model - Nowadays**

*Willibald PLESSAS*

15:00

**Hamiltonian Approach to QCD in Coulomb gauge-from the vacuum to finite temperatures**

*Hugo REINHARDT*

14:20 - 15:10

# New Frontiers in Physics ICNFP 2015

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<http://conference4me.com>

## Conference4me

Mobile Conference Assistant



FEATURES:

- Personal scheduler for conferences and exhibitions
- Access to up-to-date agenda
- Conference content with abstracts
- Easy access to conference key information
- Dynamic data synchronization and schedule updates
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kindle fire

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e-mail: [office@smn.poznan.pl](mailto:office@smn.poznan.pl), <http://www.psnk.pl>

Is updated every  
3 hours from  
Indico.

<http://conference4me.com>



4th International Conference on New Frontiers in Physics

**New Frontiers in Physics**

**ICNFP 2015**

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Registration is opened from 7:30 a.m. to  
8:00 p.m.

For different options for payments:  
see announcements on boards and registration  
desk.



**New Frontiers in Physics**  
**ICNFP 2015**

Crete, Greece

At registration please complete the various lists namely :

**Meals:** register nr of people and preferences

**Bus transfers:** 5EU for one ride

**Excursion:** Knossos, Monasteries, Falassarna beach

**Social Events:** participation and nr of people

**Important:** for Tuesday

- Morning: excursion to Heraklion for accompanying people
- Evening: public talk, visit and dinner at Chania

Note: NO dinner is going to be served in OAC.

**For accompanied people, please arrange with registration desk**



# New Frontiers in Physics ICNFP 2015

Crete, Greece

Bus schedule see here

[https://indico.cern.ch/event/344173/attachments/1140768/1638308/timetable.ods\\_-\\_Buses-2.pdf](https://indico.cern.ch/event/344173/attachments/1140768/1638308/timetable.ods_-_Buses-2.pdf)  
and on boards

Monday(24/08)	Tuesday(25/08)	Wednesday (26/08)	Thursday (27/08)	Friday (28/08)	Saturday (29/08)	Sunday (30/08)
07.30 Irinoula dreams	06.00 . Bus N 1 departure OAC - Heraklion (excursion for accomp people)	07.30 Irinoula dreams	07.45 Irinoula dreams	07.45 Irinoula dreams	07.45 Irinoula dreams	06.00 Bus Departure OAC - Knossos
07.40 Chrispy hotel	06.10 Grand Bay	07.40 Chrispy hotel	07.55 Chrispy hotel	07.55 Chrispy hotel	07.55 Chrispy hotel	Bus arrival from Knossos to hotels
07.40 Selini	06.10 Lekfa	07.40 Selini	07.55 Selini	07.55 Selini	07.55 Selini	
07.45 Kolimbari beach	06.10 Althea	07.45 Kolimbari beach	08.00 Kolimbari beach	08.00 Kolimbari beach	08.00 Kolimbari beach	06.00 Bus departure OAC - Monasteries
07.45 Chrysanna	06.15 Chrysanna	07.45 Chrysanna	08.00 Chrysanna	08.00 Chrysanna	08.00 Chrysanna	Bus arrival from Monasteries to hotels
07.50 Althea	06.15 Kolimbari beach	07.50 Althea	08.05 Althea	08.05 Althea	08.05 Althea	
07.50 Lekfa	06.20 Selini	07.50 Lekfa	08.05 Lekfa	08.05 Lekfa	08.05 Lekfa	10.30 Bus departure OAC - Falassama
07.50 Grand Bay	06.20 Chrispy hotel	07.50 Grand Bay	08.05 Grand Bay	08.05 Grand Bay	08.05 Grand Bay	Bus arrival from Falassama to hotels
08.00 Buses arrival hotels - OAC	06.30 Irinoula dreams	08.00 Buses arrival hotels - OAC	08.15 Buses arrival hotels - OAC	08.15 Buses arrival hotels - OAC	08.15 Buses arrival hotels - OAC	
	17.30 . Bus N 1 arrival from Heraklion to UNI (the same bus should bring to hotel all those that don't want to join the public event also from OAC to hotels)					19.15 Irinoula dreams
18.40 Bus departure OAC - hotels		20.20 Irinoula dreams	18.00 Bus departure OAC - hotels	09.30 Buses departure from OAC to Chania Science Fair	17.15 Irinoula dreams	19.25 Chrispy hotel
	07.45 Irinoula dreams	20.30 Chrispy hotel		13.00 Bus departure Chania Scienc	17.20 Chrispy hotel	19.25 Selini
20.20 Irinoula dreams	07.55 Chrispy hotel	20.30 Selini	19.30 Irinoula dreams		17.20 Selini	19.30 Kolimbari beach
20.30 Chrispy hotel	07.55 Selini	20.35 Kolimbari beach	19.40 Chrispy hotel	17.25 Bus departure OAC - hotels	17.25 Kolimbari beach	19.30 Chrysanna
20.30 Selini	08.00 Kolimbari beach	20.35 Chrysanna	19.40 Selini		17.25 Chrysanna	19.40 Althea
20.35 Kolimbari beach	08.00 Chrysanna	20.40 Althea	19.45 Kolimbari beach	17.30 - Bus departure OAC - Chania	17.30 Althea	19.40 Lekfa
20.35 Chrysanna	08.05 Althea	20.40 Lekfa	19.45 Chrysanna	23.30 Bus departure Chania - hotels		19.40 Grand Bay
20.40 Althea	08.05 Lekfa	20.40 Grand Bay	19.50 Althea	00.00 Bus departure Chania - hotels	17.30 Grand Bay	19.45 Bus arrival from hotels to OAC
20.40 Lekfa	08.05 Grand Bay	20.50 - Bus arrival hotels - OAC	19.50 Lekfa		17.45 - Buses arrival hotels - OAC	
20.40 Grand Bay	08.15 Buses arrival hotels - OAC		19.50 Grand Bay			22.45 Bus departure OAC - hotels
20.50 - Bus arrival hotels - OAC		21.10 - Bus departure OAC - hotels	20.00 Bus arrival hotels - OAC		17.55 - Bus departure OAC - hotels	
	17.10 Bus departure OAC to hotels					
21.00 - Bus departure OAC - hotels		22.15 Bus departure OAC - hotels	23.00 Bus departure OAC - hotels		22.45 Bus departure OAC - hotels	
	17.00 Bus N 2 departure OAC to UNI					
23.00 - Bus departure OAC - hotels	22.30 Bus N2 departure Chania to hotels		23.45 Bus departure OAC - hotels			

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## PRICE LIST ICNFP 2015

### 1. PARTICIPANT

Conference fee (full): 285 EURO

Conference fee (student): 195 EURO

**In the Conference fee the social events are included.**

### 2. ACCOMPANYING PERSON

#### Social Events::

Date/Time	Title	Place	Par oac	Par	Acc oac	acc	Kid
23/08 19:00-20:00	Cultural Event: Blessing	Chapel, OAC Basement					
23/08 20:30-21:30	History of Crete	OAC Terasse					
24/08 21:00-22:30	Concert of Classical Music	Conference Hall					
25/08 06:00-17:00	Excursion to Heraklion				30	30	20
25/08 17:00-24:00	Lecture+Dinner, Chania	Chania		15		15	10
26/08 19:00-21:00	Poster Session with wine	OAC					
26/08 21:00-22:00	Opera Gala	Conference Hall					
27/08 20:00-23:45	Conference Dinner	OAC			10	30	10
28/08 18:30-23:30	Excursion to Chania						
29/08 20:30-23:30	Year of Light with Music	OAC Amphitheatre					
30/08 06:00-18:00	Excursion to Heraklion	Knossos			40	40	20
06:00-18:00	Excursion to Monasteries	Chania region			30	30	20
10:30-17:00	Excursion to Falasserna				30	30	20

## Social Events I

**Monday 24 August 2015, 13:30**

**Group photo at the staircase before OAC**

**Monday 24 August 2015, 21:00 -22:30**

**Concert of Classical Music  
and Welcome Drink**



*AUGUST 24<sup>TH</sup>, 2015, 21:00, OAC KOLYMBARI  
CONCERT OF CLASSICAL MUSIC (FREE ENTRANCE)*

*TRIO: RUBEN MURADYAN (PIANO),  
SVETLANA NOR (VIOLIN), VLADIMIR NOR (CELLO)*

[Wolfgang Amadeus Mozart \(1756-1791\) Piano Trio in E major, K. 542 for violin, cello and piano \(1788, Vienna\)](#)

[Robert Schumann \(1810-1856\) Piano Trio No 1 in D minor, Op. 63 for violin, cello and piano \(1847\)](#)

[Pyotr Tchaikovsky \(1840-1893\) Pieces for violin and piano \(1877\) Variations on a Rococo Theme arranged for cello and piano Op. 33](#)

[Vladimir Nor \(cello\) and Svetlana Nor \(violin\)](#) are playing for 20 years in Alyabjev Quartet (Moscow, Russia), Honored Artists of Russian Federation.

[Ruben Muradyan \(piano\)](#) is a professor of GMPI MM Ippolitov-Ivanov, winner of many International Competitions, giving concerts in Russia and abroad.

## Social Events II

**Tuesday 25 August 2015, 06:00-17:30**

Excursion for accompanying persons to Herakleion including St Titus celebrations and/or visit to the museum. After the excursion the bus will bring participants either to the hotels or directly to the Technical University of Chania for the Public Talk followed by dinner at a seaside taverna.

**Tuesday 25 August 2015, 18:00** (bus at 17:00)

Public talk (in english, program of event), visit to the "Park for the Preservation of Flora and Fauna" and dinner at a seaside Taverna

### The Old One does not throw dice **Einstein's dialog with God**

**Prof. Dr. Thomas Naumann**

Deutsches Elektronen-Synchrotron DESY, Zeuthen/Berlin

“ Einstein spoke so often about God that Bohr reportedly asked him

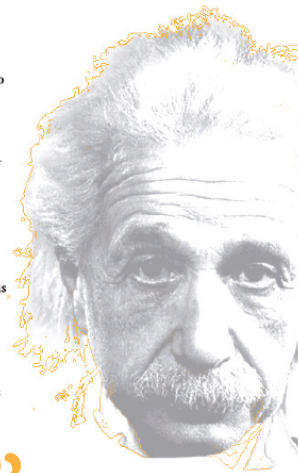
'Stop telling God what to do'.

He addressed God as if he had a direct connection to the Old One and wanted to know His thoughts.

Einstein was fascinated by the fact that the world is comprehensible and believed in the simplicity and harmony of the laws of Nature. This profound belief was a prerequisite of his thinking. Like Brecht's Galileo he could not get up in the morning without it and devoted to the traditional Jewish search for the law.

Einstein also asked whether God had a choice and could have made the world any differently. Today, his question leads to the anthropic discussions on a multiverse and the fine tuning of the parameters of our world in view of inflation, dark energy and the recently discovered Higgs boson.

Einstein's specific approach to the deepest questions of science continues to be very productive in our ongoing search for a unified theory of all forces, extra dimensions of space and a supersymmetric mirror world.



**Technical University of Crete (TUC),**

Main amphitheatre in the Science/ECE Building (141.Π.98)

**25 August 2015 , 18:00**

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**Social Events III**

Wednesday 26 August 2015, 19:30-20:30

Poster session with wine testing and dinner at 20:00-21:00

Wednesday 26 August 2015, 21:00-22:00 Opera Gala,  
OAC amphitheater.

The program of the Opera Gala event can be found here.  
Artists: Kalliopi Petrou, Soprano, Alessia Toffanin, piano

**Opera Gala**

OAC Auditorium

Kolymbari

August 26<sup>th</sup> 2015, 9PM



*Kalliopi  
Petrou  
Soprano*



*Alessia  
Toffanin  
Piano*



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## Social Events IV

Thursday 27 August 2015, 20:00-23:45  
Conference Dinner with Cretan night



## Social Events V

**Friday 28 August 2015 10:00 - 13:30**

Science Fair at Chania Sailing Club

**Friday 28 August 2015, 18:30-23:30**

Excursion to Chania, old venetian harbor


**Friday 28 August 2015 18:30**

Visit to the old synagogue of Chania

**Friday 28 August 2015 20:00-23:00**



Public talk (in greek, program of event) at Chania

Μικροσκοπικές Μελανές Οπές:  
Ένα νέο παράθυρο στο Σύμπαν  
ομιλία του καθηγητή Ηλία Κυρίτση



Νεώριο Μόρο  
Ιστοπλοϊκός Όμιλος Χανίων  
Παρασκευή 28 Αυγούστου 2015, 20:00

4th International Conference on New Frontiers in Physics  
[indico.cern.ch/event/icnfp2015](http://indico.cern.ch/event/icnfp2015)

ESO/NIRX/Marc Schartmann



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**Social Events VI**

Saturday 29 August 2015 (18.30 - 21.00)

Year of Light event with music in OAC



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**Social Events VII**

Sunday 30 August 2015 (all day)  
Conference Excursions

Sunday 30 August 2015 (21.30 - 22.30)  
Closing with a concert of classical music in OAC



## **Sunday, 30 Aug, Excursion to Monasteries**

6:00 Departure for trip to the top of Metamorposi monastery

7:00 - 8:30 Liturgy

8:30 - 9:30 Coffee and small tour in Metamorposi

10:00 - 11:00 Walk through the mountain path to Agia Kyriaki Monastery

11:00-12:00 Tour in Agia Kyriaki Monastery

12:15-13:30 Visit of Chrysopigi Monastery (16th century)

14:00 Lunch in Chania center

15:30 Agia Triada (short tour for 30 minutes) and Gouverneto Monastery

18:00 Return to OAC

20:00 Dinner



## **Sunday, 30 Aug, Excursion to Knossos**

6:00 Departure for Knossos

9:30 Visit Knossos

11:00 Departure from Knossos to museum

11:30 Visit museum Heraklion

13:00 Departure from museum

13:30 Lunch in Heraklion Taverna

15:00 Departure for OAC, possible stop for coffee in Rethymno

18:00 Arrival at OAC

20:00 Dinner



4th International Conference on New Frontiers in Physics

# New Frontiers in Physics ICNFP 2015

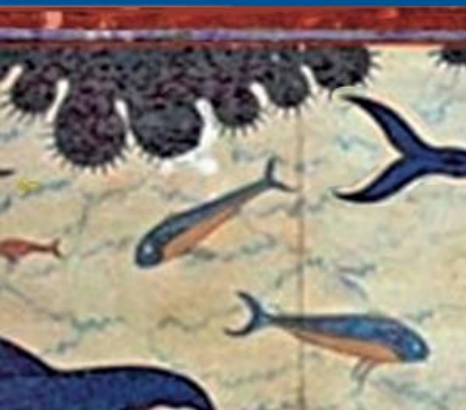
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## Sunday, 30 Aug, Excursion to Falassarna

10:30 Departure

13:30 lunch at  
a local taverna

17:00 Arrival at OAC



# New Frontiers in Physics ICNFP 2015

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## Sponsors and organizing institutes

CERN - European Organization for Nuclear Research

EMMI - ExtreMe Matter Institute

GSI - Helmholtzzentrum für Schwerionenforschung

FAIR - Facility for Antiproton and Ion Research

University of Oslo

Subatech

University of Nantes

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**New Frontiers in Physics**  
**ICNFP 2015**

Crete, Greece

**LOGIN: GUEST**

**ICNFP2015 WI-FI**

**PASSWORD: 2015**



**Enjoy the conference!**

