

Welcome !!



**XII Quark Confinement and the Hadron Spectrum
QCHS or CONF12**

Yiota Foka and Nora Brambilla
on behalf of the organising committee

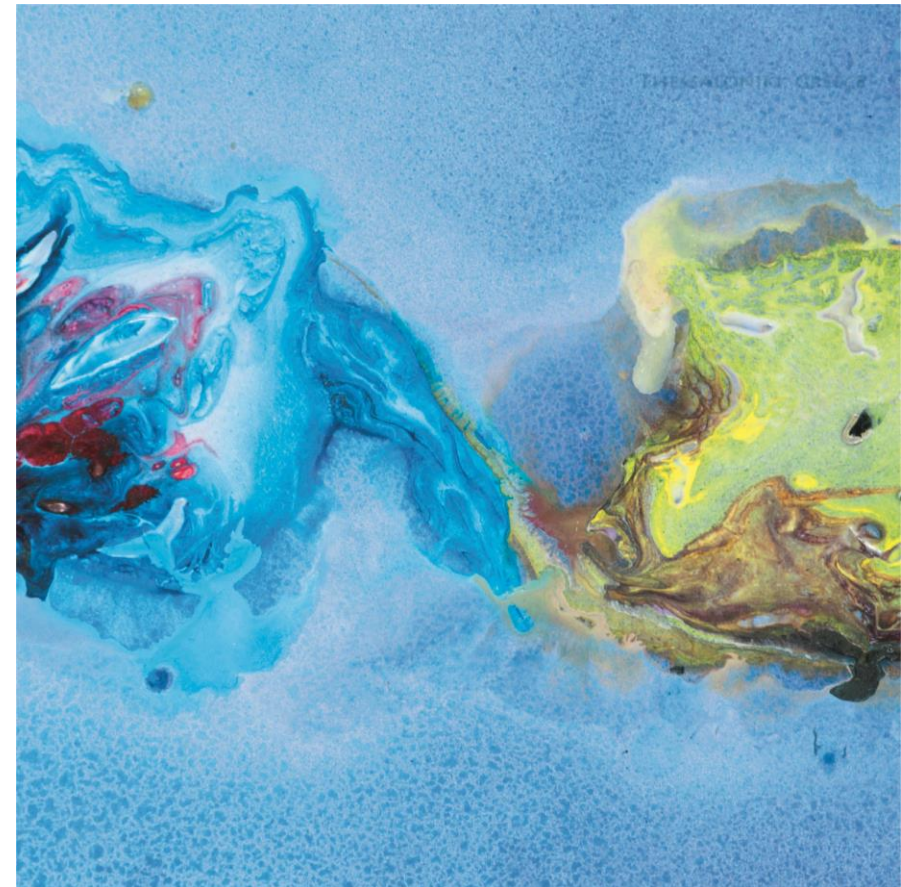
29 aug – 3 sep, Makedonia Palace, Thessaloniki, Greece

Brief history

**Inaugurated in 1994 by N. Brambilla and G. Prosperi
the first two editions were held in Como, Italy (biannual)**

Subsequent editions were held in

- **Newport News (1998)**
- **Vienna (2000)**
- **Gargnano (2002)**
- **Villasimius (2004)**
- **Azores (2006)**
- **Mainz (2008)**
- **Madrid (2010)**
- **Munich (2012)**
- **Saint Petersburg (2014)**



Brief history

373 participants for this year conference!



XIIth Quark Confinement and the Hadron Spectrum

from 28 August 2016 to 4 September 2016
Europe/Athens timezone

[Home](#)

[Scientific Programme](#)

[Invited plenary speakers](#)

[Organisation](#)

[Poster](#)

[Dates and Announcements](#)

[Agenda](#)

[Timetable](#)

[Poster Session](#)

Participant List

373 participants

First Name	Last Name	Affiliation
Francesca	Aceti	IFIC - Universidad de Valencia
Andria	Agadjanov	University of Bonn
Constantia	Alexandrou	University of Cyprus and The Cypr...
Mohammad	Alhakami	KACST
Igor	Altsybeev	St. Petersburg State University (R...

Welcome to Thessaloniki

Mayor: Giannis Boutaris
Welcome drink: Monday 20:00 at City Hall



Venue

Makedonia Palace hotel



Welcome to Aristoteleio Panepistimeio

PRYTANHS: Περικλής Α. Μήτκας

Welcome : Wednesday 8:30 at Ceremony Hall of Aristoteleio Panepistimeio Thessalonikis



Year of Aristotelis

Presentation on 'Aristotle's Apprehension of Reality' by I. Antoniou
Visit Aristotelis school (where Alexander the Great graduated !)

Scientific programme

- **Section A: Vacuum Structure and Confinement**
Conveners: D. Antonov (Heidelberg), M. Faber (TU Vienna), J. Greensite (San Francisco SU)
- **Subsection A: Emergent gauge fields and chiral fermions**
Conveners: T. Schaefer (NC State U), V. Shevchenko (NRC Kurchatov I)
- **Section B: Light Quarks**
Conveners: J. Goity (Hampton U), B. Ketzer (Bonn U), H. Sazdjian (IPN Orsay), N. G. Stefanis (Ruhr U Bochum), H. Wittig (JGU Mainz)
- **Section C: Heavy Quarks**
Conveners: G. Bodwin (Argonne NL), P. Pakhlov (ITEP), J. Soto (U Barcelona), A. Vairo (TUM)
- **Section D: Deconfinement**
Conveners: C. Allton (Swansea U), E. Iancu (CEA/DSM/Saclay), M. Janik (WUT), P. Petreczky (BNL), A. Vuorinen (U Helsinki), Y. Foka (GSI)
- **Section E: QCD and New Physics**
Conveners: W. Detmold (MIT), M. Gersabeck (U Manchester), F. J. Llanes-Estrada (UC Madrid), E. Mereghetti (Los Alamos NL), J. Portoles (IFIC, Valencia)
- **Section F: Nuclear and Astroparticle Physics**
Conveners: M. Alford (Washington U in St.Louis), D. Blaschke (U Wroclaw), T. Cohen (U Maryland), L. Fabbietti (TUM), A. Schmitt (U Southampton)
- **Section G: Strongly Coupled Theories**
Conveners: D. Espriu (U Barcelona), Z. Fodor (BU Wuppertal), E. Kiritsis (APC/U Crete), F. Sannino (CP3-Origins), A. Weiler (TUM)

Scientific programme

In addition, 2 special sections:

- **Statistical methods for Physics in the XXIth Century**
- **Conveners: T. Dorigo (INFN)**
- **Future Perspectives, Upgrades and Instrumentation**
- **Conveners: L. Musa (CERN), S. Leontsinis (U Colorado), P. Di Nezza (INFN Frascati), C. Sturm (GSI)**

Special Thanks to all conveners !!

Conveners - Badges with green dot !!
Contact them for the scientific programme

Student lectures, August 28

- A. Vairo (TUM):** Introduction to Nonrelativistic effective Field Theories for QCD
H. Sazdjian (IPM Orsay): Introduction to chiral QCD
J. L. Goity (Jefferson Lab): Introduction to Large N QCD
A. De Rujula (CSIC): General Relativity and Gravitational Waves



**Special Thanks to
Lecturers !!**



Contributions

Procedures on delivering contributions

Make sure to deliver your contributions on time !

The speakers should upload the slides to the indico server latest on the day before the session is held.

Last resort, email or give to conveners in a USB key.

In case of any problem, please contact Łukasz Graczykowski (lgraczyk@if.pw.edu.pl) or Vladimir Kovalenko (vladimir.kovalenko@cern.ch)

Posters should also be uploaded to Indico system.

Indico ->My Contributions -> click on talk title -> Presentation Materials

Agenda

<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
- Offline functionality
- Built-in conference maps
- Exhibition list



kindle fire

Type 'Conference4me' in
Play Store/iTunes App Store/Windows Phone Store
or scan the code below



POZNAŃ SUPERCOMPUTING AND
NETWORKING CENTER



Poznań Supercomputing and Networking Center affiliated to the Institute of Molecular Chemistry of the Polish Academy of Sciences
ul. Trakowicka 10/14, 61-134 Poznań, POLAND. Office phone center (+48 61) 666-2400, fax: (+48 61) 662-50-54,
e-mail: office@mon.poznan.pl, <http://www.psnk.pl>

- Printed Program
- Daily updates on announcement boards
- Online: indico.cern.ch/e/conf12

In your smartphones
and tablets

All you want to know
about the conference

Registration and Payments

Registration desk open:

- Monday, August 29, from 8:00 to 20:00
- Other days: from 8:15 to end of sessions
- NOT on Wednesday

Payments

- cash or credit card

For any questions on payments: NB events, Niki Bai

Tel: +30-2310-223461

info@nbevents.gr

bai@nbevents.gr

Accompanying People

Accompanying People Programme

Monday at 11:00 meeting at registration desk

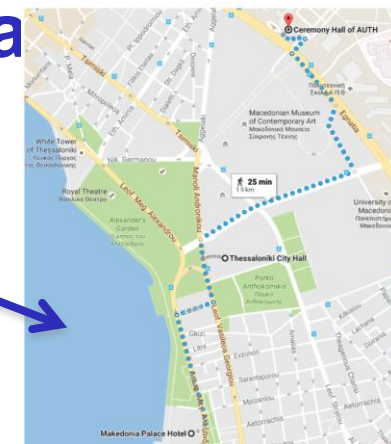
- Excursions
- Discover the town and Activities info
- Babysitting info

Accompanying persons will have a possibility to go to additional excursion which will be organized by NBEvents agency. For details go to the following page:

<https://nbevents.gr/services/quark/tours>

Calendar of Events to remember

- **Monday 29 August – Welcome drink in City Hall**
 - **Tuesday 30 August – Poster session and wine tasting**
 - **Wednesday 31 August – Plenaries at Ceremony Hall of AUTH**
 - **Wednesday 31 August – Conference excursion**
 - **Thursday 1 September – Conference dinner**
 - **Friday 2 September – Opera gala**
 - **Saturday 3 September – Closing, Sta**
- More info and directions on webpage and in booklet**



Venue: Makedonia Palace
Angelos Alexandrou Avenue 2
54640 Thessaloniki

Monday Welcome Reception
City Hall, Open Amphitheater
Leof. Vasileos Georgiou 1
54640 Thessaloniki

Wednesday Plenary Sessions
University of Thessaloniki, Athousa Teleton
Ceremony Hall of AUTH
Egnatia 131
54636 Thessaloniki

Public transport www.oasth.gr/en

BUS 78 goes from the airport to the centre of the town
(cost of ticket 2 EUR)
BUS 50 is the "cultural line" and goes through the places
of interest in the town (cost of ticket 2 EUR)

For all other buses the ticket costs 1 EUR (for a trajectory
with one bus) and 1.2 EUR for a trajectory using two buses)

Bus

- Makedonia Palace Hotel - Ceremony Hall of the Aristotle University
- Walk to bus stop Evzonas, Vasileos Georgiou Street
(about 5 min. walk - 350 m)
- Take bus No. 8 (towards T.S. K.T.E.L.) - 5 Stops to A.H.E.P.A.
bus stop
- Exit the bus at A.H.E.P.A. bus stop
- Walk to The main Ceremony Hall of the Aristotle University
(about 4 min. walk - 350 m)

Walking

- Walk to the main Ceremony Hall of the Aristotle University
(about 20 min. walk - 1.8 km)

Taxi

Social events mosaic





 **Kalliopi Petrou**
Soprano

Opera Gala
Thessaloniki,
August 29th, 2016
8PM

XIth Quark Confinement and the Hadron Spectrum
Thessaloniki, Greece
Ioannis Vellidis conference centre
154 Egnatia Street
August 29th – September 2nd, 2016

 **Alessia Toffanin**
Piano



Public event in Veroia, August 27

Science Event for the Public
with the participation of
researchers from the
"large experiments" of

CERN

FOR ALL AGES

12th International Conference
"Quark Confinement and the Hadron Spectrum"

Organizers:
Yiota Foka, Christina Kourkoumeli

Morning Science Event
Presentation and Projections
of CERN Experiments

Evening Science Event

19:00 First part of musical performance
19:15 Public lecture
"CERN and search for new physics"
20:00 Second part of musical performance
20:15 Questions and discussion with the public
Speaker: Emmanuel Tsismelis
Soprano: Kalliopi Petrou

Public Central Library of Veroia
8 Ellis str. Tel.: 23310 24494 - 11:30 - 14:00

Convention Hall,
Public Central Library of Veroia - 19:00 - 21:00

Free Entrance

Veroia, Saturday 27 August 2016



indico.cern.ch/e/conf12



ELME IMATHIAS



CREATIONS
Innovation in Education



Public event in Veroia, August 27

Science Event for the Public
with the participation of
researchers from the
"large experiments" of

CERN

FOR ALL AGES

12th International Conference
"Quark Confinement and the Hadron Spectrum"

Organizers:
Yiota Foka, Christina Kourkouveli

Morning Science Event
Presentation and Projections
of CERN Experiments

Evening Science Event
19:00 First part of musical performance
19:15 Public lecture
"CERN and search for new physics"
20:00 Second part of musical performance
20:15 Questions and discussion with the public
Speaker: Emmanuel Tsesmelis
Soprano: Kalliopi Petrou

Public Central Library of Veroia
8 Ellis str. Tel.: 23310 24494 - 11:30 - 14:00

Convention Hall,
Public Central Library of Veroia - 19:00 - 21:00

Free Entrance **Veroia, Saturday 27 August 2016**

 indico.cern.ch/e/conf12       



Public event in Thessaloniki, August 28



Science Event for the Public
with the participation of
researchers from the
"large experiments" of

CERN

FOR ALL AGES

12th International Conference
"Quark Confinement and the Hadron Spectrum"

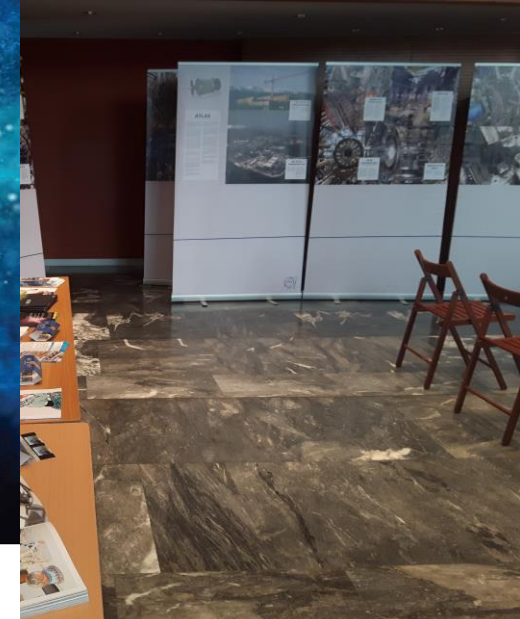
Speaker: Emmanuel Tsesmelis
Soprano: Kalliopi Petrou

Programme

- 18:00 Introduction to CERN, Exhibition
- 18:45 Theatrical play by high school students
- 19:30 First part of musical performance
- 19:45 Public lecture
"CERN and search for new physics"
- 20:30 Second part of musical performance
- 20:45 Questions and discussion with the public

Free Entrance Sunday 28 August 2016, Time: 18:00 - 21:00
Thessaloniki, City Hall, Auditorium "M. ANAGNOSTAKIS"

Welcome Reception Welcome of the Conference Participants, Monday 29 August 2016
City Hall, Open Amphitheater



indico.cern.ch/e/conf12



CITY OF THESSALONIKI



Organizing Committee

Y. Foka (GSI, Germany) - chair

N. Brambilla (TUM, Germany) - co-chair and scientific secretary

E. Andronov (SPbSU, Russia)

T. Alexopoulos (NTUA, Greece)

R. Averbeck (GSI, Germany)

D. Bandekas (EMaTTech, Greece)

T. Dorigo (INFN Padova, Italy)

C. Eleutheriadis (AUTH, Greece)

T. Geralis (Demokritos, Greece)

L. Graczykowski (WUT, Poland)

S. Harissopoulos (Demokritos, Greece)

A. Ioannidou (AUTH, Greece)

M. Janik (WUT, Poland)

A. Katanaeva (SPbSU, Russia)

G. Kitis (AUTH, Greece)

C. Kourkoumelis (NKUA, Greece)

V. Kovalenko (SPbSU, Russia)

A. Liolios (AUTH, Greece)

A. Mischke (Utrecht U. the Netherlands)

A. Petkou (AUTH, Greece)

D. Shukhobodskaya (SPbSU, Russia)

C. Sturm (GSI, Germany)

Badges in gold !!

**Students Assistants: APTh Thessaloniki, EMaTTech Kavala
Blue Tshirts**

Public Events: NKUA Athens

Sponsors and organizing institutes

CERN - European Organization for Nuclear Research

EMMI - ExtreMe Matter Institute

FAIR - Facility for Antiproton and Ion Research

GSI - Helmholtzzentrum für Schwerionenforschung

TUM - Technische Universität München

AUTH - Aristotle University of Thessaloniki

EMaTTech - Eastern Macedonia and Thrace Institute of Technology

National Center for Scientific Research "DEMOKRITOS"

NTUA - National Technical University of Athens

NKUA - National and Kapodistrian University of Athens

NWO - Netherlands Organization for Scientific Research

SPbSU - Saint Petersburg State University

INFN Padova - Istituto Nazionale di Fisica Nucleare Sezione di Padova

UU - Utrecht University

WUT - Warsaw University of Technology

AMVA4NewPhysics - An ITN of the Horizon2020 EU programme

City of Thessaloniki

CREATIONS

Thank you!



National and Kapodistrian
UNIVERSITY OF ATHENS



Enjoy the conference!

Basics:

- Limit use of internet to necessary !!
- Follow the lectures, respect the speakers
- Speakers: respect the next speakers, keep to allocated time
- Chairs: monitor the time

Wi-Fi

Network: Makedonia palace

Login: GUEST

Password: GUEST (or click on 'click here')

Follow the latest news on our Twitter:

twitter.com/QCHS_12

Exchange your impressions using hashtag

#conf12 #QCHS12





Group photos

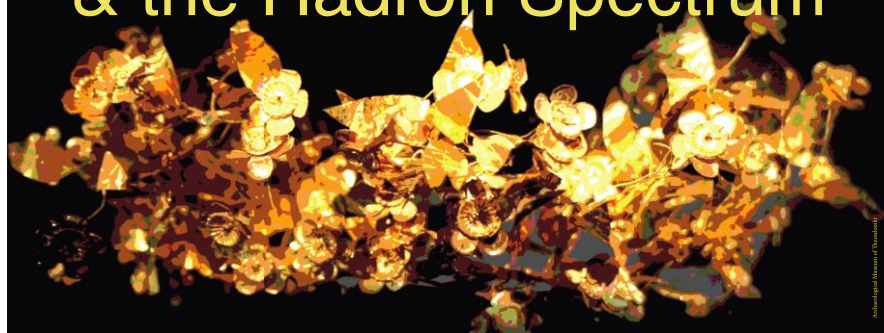
Wednesday, 31 August
At morning coffee break at the AUTh

Friday, 2 September
At afternoon coffee break at Makedonia Palace

POSTERS CONF12 and WORKSHOP

Discover the treasures !

XII Quark Confinement & the Hadron Spectrum



29 August 2016 - 3 September 2016
Makedonia Palace conference centre,
Thessaloniki, Greece

<http://indico.cern.ch/e/conf12>

Organizing Committee

Y. Foka (GSI) – chair
N. Brambilla (TU Munich) – co-chair and scientific secretary

T. Alexopoulos (N.T.U., Athens)
E. Andronov (SPbSU)
R. Averbeck (GSI)
D. Bandakas (EMaT Tech)
T. Dorigo (U. INFN, Padova)
C. Eleutheriadis (AUTH, Greece)
T. Gerasis (Demokritos)
U. Graczykowski (WUT)
S. Hatzisopoulos (Demokritos)
A. Ioannidou (AUTH, Greece)
M. Janik (WUT)
A. Katsenavva (SPbSU)
G. Kilijs (AUTH, Greece)
C. Kourkoulis (N. Kapodistrian U., Athens)
V. Kovalenko (SPbSU)
T. Lolios (Aristotle U., Thessaloniki)
A. Mischke (Utrecht U., the Netherlands)
A. Petkou (AUTH, Greece)
C. Petridou (AUTH, Greece)
D. Shukhobidskaia (SPbSU)
C. Sturm (GSI)

International Advisory Committee

A. Andrianov (SPbSU, Russia)
M. Baker (U. of Washington, USA)
M. Beneke (TU Munich, Germany)
G. Bodwin (Argonne NL, USA)
A. Buras (TU Munich, Germany)
G. Colangelo (U. of Bern, Switzerland)
M. Creutz (Brookhaven NL, USA)
G. Ecker (U. of Vienna, Austria)
E. Eichten (Fermilab, Batavia, USA)
M. Faber (TU Vienna, Austria)

Section A: Vacuum Structure and Confinement

D. Antonov (Heidelberg), M. Faber (TU Vienna), J. Greensite (San Francisco State U.)

Focus Subsection: Applications to strong matter

T. Schafer (NC State U.), V. Shevchenko (NRC Kurchatov I.)

Section B: Light Quarks

J. Goto (Hampton U.), B. Kitzler (Bonn U.), H. Sazdjian (IPN Orsay), N. G. Stefanis (Ruhr U. Bochum), H. Wittig (JGU Mainz)

Section C: Heavy Quarks

G. Bodwin (Argonne NL), P. Pakhlov (ITEP, Moscow), J. Soto (U. Barcelona), A. Vairo (TU Munich)

Section D: Deconfinement

C. Allton (Swansea U.), E. Iancu (CEA/DSM/Saclay), M. Janik (WUT), P. Petreczky (BNL), A. Vuorinen (U. Helsinki)

Section E: QCD and New Physics

W. Detmold (MIT), M. Gersabeck (U. Manchester), F. J. Llanes-Estrada (UC Madrid), E. Mereghetti (Los Alamos NL), J. Portiles (IFIC, Valencia)

Section F: Nuclear and Astroparticle Physics

M. Alford (Washington U. in St. Louis), D. Blaschke (U. Wrocław), T. Cohen (U. Maryland), L. Fabbietti (TU Munich), A. Schmitt (U. Southampton)

Section G: Strongly Coupled Theories

D. Espriu (U. Barcelona), Z. Fodor (BU Wuppertal), E. Kintis (APC and U. Crete), F. Sannino (CP3-Origins), A. Weiler (TU Munich)

N. Kaiser (TU Munich, Germany)

G. Krein (UNESP, Brazil)

W. Lucht (HEPHY, Austria)

M. Lüscher (CERN, Switzerland)

T. Mannel (U. of Siegen, Germany)

A. Manohar (U. of California, USA)

G. Martinelli (SISSA, Italy)

K. Maung (U. of Southern Mississippi, USA)

M. Neubert (JGU of Mainz, Germany)

S. Paul (TU Munich, Germany)

J. Pelaez (UC Madrid, Spain)

K. Peters (GSI, Germany)

A. Pich (U. of Valencia, Spain)

G. Prosperi (U. of Milan, Italy)

H. Reinhardt (U. of Tübingen, Germany)

J. E. Ribeiro (IST Lisboa, Portugal)

H. Sazdjian (IPN Orsay, France)

M. Shifman (U. of Minnesota, USA)

J. Soto (U. of Barcelona, Spain)

H. Suganuma (Kyoto U., Japan)

H. Toki (Osaka U., Japan)

E. Tsiontsalis (CERN, Switzerland and U. of Oxford, UK)

A. Vairo (TU Munich, Germany)

U. Wiedemann (CERN, Switzerland)

Sponsors & Co-organizers CERN | EMMI | FAIR | GSI | AUTH | Demokritos | EMaT Tech | INFN Padova | NTUA | SPbSU | TUM | UOA | Utrecht U. | WUT



Accelerators Revealing the QCD Secrets

3-5 September 2016

Makedonia Palace,
Thessaloniki, Greece

<https://indico.cern.ch/e/AcceleratorWorkshop>

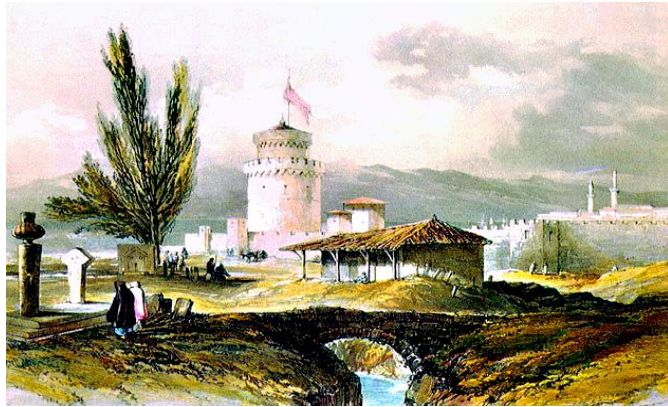
Organizing Committee

P. Foka (GSI)
O. Keister (GSI)
E. Tsiontsalis (CERN)

Sponsors & Co-organizers CERN | EMMI | FAIR | GSI | AUTH | Demokritos | EMaT Tech | INFN Padova | NTUA | SPbSU | UOA | Utrecht U. | WUT



Welcome !!



**XII Quark Confinement and the Hadron Spectrum
QCHS or CONF12**

Yiota Foka and Nora Brambilla
on behalf of the organising committee

29 aug – 3 sep, Makedonia Palace, Thessaloniki, Greece