



SECOND CIRCULAR:

30/01/2018

**9th International workshop on
Quantum Phase Transitions in Nuclei and Many-Body Systems
Padova (Italy), 22-25 May 2018**

❖ **Motivation, Scientific Programme and Hosting Institution:**

This series of workshops, initially aimed at shape-phase transitions and critical point phenomena in nuclei, started in Berkeley in 2004 and continued in Camerino (2005), Athens (2006), Sofia (2007), Istanbul (2009), Darmstadt (2012), Seville (2014) and Prague (2016).

It is our purpose to foster an informative and exciting workshop and keep the informal spirit of lively discussions that represents the true success of these meetings. The sessions will be coordinated by Conveners that will give a general overview and invite short talks (5-15 min.) on the following topics:

- Empirical aspects of Quantum Phase Transitions
Conveners: N. Pietralla (pietralla@ikp.tu-darmstadt.de)
R. Casten (richard.casten@yale.edu)
- Symmetries & shapes in nuclei
Conveners: A. Leviatan (ami@phys.huji.ac.il)
J.M.Arias (ariasc@us.es)
- Transitional nuclei & shape coexistence
Conveners: J.E. Garcia-Ramos (enrique.ramos@dfaie.uhu.es)
- Shell evolution
Conveners: T. Otsuka (otsuka@phys.s.u-tokyo.ac.jp)
- Excited states phase transitions
Convener: P. Cejnar (cejnar@ipnp.troja.mff.cuni.cz)
- Alternative approaches to phase transitions
Conveners: Yu Zhang (dlzhangyu_physics@163.com)
- Phase transitions in atomic, molecular and other domains
Conveners: R. Bijker (bijker@nucleares.unam.mx)
F. Pérez-Bernal (francisco.perez@dfaie.uhu.es)
- Density functional approaches to phase transitions
Convener: D. Vretenar (vretenar@phy.hr)

Participants are encouraged to contact the conveners directly in order to propose a theme for discussion. The initial focus has progressively broadened to include topics that are closely connected to the original topic such as excited state quantum phase transitions, shape-coexistence, shell evolution, phase transitions in atoms and molecules and other domains of quantum physics.

The workshop will be organized in the historical and charming center of the city of Padua, within the premises of the University. This ancient institution dates back to 1222, it has the oldest botanical garden and anatomical theaters in the world and it has been home to famous scientists such as Galilei, Copernicus, Harvey, Vesalius, Falloppio, Ricci-Curbastro and Levi-Civita, just to name a few. This liberal university, whose motto is '*Universa universis patavina libertas* (Paduan freedom is universal for everyone)', has witnessed the first award of a Ph.D. title to a female student in 1678. The university is now one of leading Italian universities with about 60.000 students. The meeting is under the sponsorship of the following institutions:

- the University of Padua
- the Department of Physics and Astronomy "Galileo Galilei" of the Univ. of Padua
- the Padova section of the *Istituto Nazionale di Fisica Nucleare* (INFN)



- the Legnaro National Laboratories of the *Istituto Nazionale di Fisica Nucleare* (INFN)
- the Major and municipality of the city of Padova.

❖ **Practical info and contacts:**

Web-site: <http://agenda.infn.it/event/qptn9>

Email: gptn9@pd.infn.it

❖ **Scientific Programme:**

A preliminary scientific programme of the conference is available on the [Workshop website](#) .

❖ **Venue & Travel:**

The workshop will take place at Padova, Italy.

- On May 22 and 23, the workshop will be held in the "Nievo" room of Palazzo del Bo (the University of Padua), Via VIII Febbraio, 2.
- On May 24 and 25, the workshop will continue its work at the "Livio Paladin" room in Palazzo Moroni (Padua City Hall), Via VIII Febbraio, 8 (with entrance in front of Palazzo del Bo).

Details on transportation and route to Padova are available on the [Workshop website](#).

❖ **Registration and payment**

The registration procedure, that is available on the Workshop website, must be completed by full participants and **from February 1, 2018 and until May 7, 2018**.

For organization purposes, early registration is appreciated.

The cost of the registration fee(including VAT), which must be paid in Euro (€) by bank transfer or credit card, is:

	EARLY REGISTRATION until 31 March	LATE REGISTRATION until 7 May
PARTICIPANT	€ 185,00	€ 250,00
Social Dinner per Accompanying Person	€ 50,00	€ 50,00

The participants' registration fee includes attendance to all technical sessions, daily coffee breaks, welcome cocktail, cultural event and conference dinner.

The payment is possible by Bank Transfer or Credit Card (VISA/MASTERCARD).

Bank Transfers must be free of charges for the Recipient. Irregular transfers will not be accepted.

Accompanying Persons Fee: The registration fee for accompanying persons must be paid only in the case of participation to the social dinner. Please make a separate payment for the Accompanying person's fee. The invoice will be issued in the name of the participant.

The Registration is not definitive until payment is received.

❖ **Accommodation:**

A list of suggested hotels is available on the [Workshop website](#).

Participants are kindly requested to book their own rooms by contacting the hotel directly.

❖ **Social events**

The following events are planned:



- On Tuesday May 22, after the afternoon session, a Welcome cocktail.
- On Wednesday May 23 late afternoon, a cultural event at the Galilean Academy with a seminar and musical entertainment.
- On Tuesday 24 May, Social Dinner.

Participants who intend to attend these events are invited to tick the appropriate fields in the registration form. Please, remember to indicate if any dietary restriction applies.

Further details will be available soon on the Workshop website.

❖ Official Invitations

For VISA information see http://www.esteri.it/visti/index_eng.asp.

Official letters of invitation to the Workshop can be provided to participants upon request. Such letters are sent only for visa and permission purposes under no obligation of the Organizing Committee.

To request an invitation letter for visa application, please fill all the fields in Registration form and notify us at qptn9@pd.infn.it with subject "QPTn9 letter for visa request".

SAVE THE DATES!

- February 1: Registration Opens**
March 31: Early Registration Payment Closes
May 7: Late Registration Payment Closes

We would be grateful if you could bring this announcement to the attention of your colleagues. The poster can be found in pdf format on the website.

We are looking forward to see you in Padova.
 The Organizing Committee

<ul style="list-style-type: none"> ▪ Organizing Committee: Lorenzo Fortunato (chairman, Unipd) Andrea Gottardo (LNL) Silvia Monica Lenzi (Unipd) Tommaso Marchi (LNL) Marco Mazzocco (Unipd) Daniele Mengoni (Unipd) Tomohiro Oishi (Unipd) Francesco Recchia (Unipd) José-Javier Valiente-Dobon (LNL) Andrea Vitturi (Unipd) ▪ Secretary: Adriana Schiavon (Unipd) 	<ul style="list-style-type: none"> ▪ International Advisory Committee: J.M. Arias (Un. Seville, Spain) R. Bijker (UNAM, Mexico) D. Bonatsos (INP, Athens, Greece) R. Casten (Yale Un., USA) P. Cejnar (Charles Un. Prague, Czech Rep.) J.E. Garcia-Ramos (Un.Huelva, Spain) F. Iachello (Yale, USA) J. Jolie (IKP Koeln, Germany) A. Leviatan (Racah Inst. Jerusalem, Israel) M. Macek (Czech Acad. Science, Prague, Czech Rep.) F. Pérez-Bernal (Un. Huelva, Spain) N. Pietralla (TU Darmstadt, Germany) L. Robledo (Un. Autonoma Madrid, Spain) E. Santopinto (INFN, Genova, Italy) P. Van Isacker (GANIL, Caen, France) D. Vretenar (Un. Zagreb, Croatia)
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