



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA



Dipartimento  
di Fisica  
e Astronomia  
Galileo Galilei



FIRST CIRCULAR :

04/09/2017

**9<sup>th</sup> 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 general overview, and invite short talks on the following topics:

- Experimental signatures & data
- Quantum phase transitions in nuclei
- Transitional nuclei & shape coexistence
- Shell evolution
- Excited states phase transitions
- Phase transitions in atomic, molecular and other domains

The initial focus has progressively broadened to include other, closely connected, topics 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 Padova, 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 three institutions:

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

❖ Practical info and contacts:

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

Email: [qptn9@pd.infn.it](mailto:qptn9@pd.infn.it)

❖ Venue:

With more than 210.000 inhabitants plus the students, the bustling city of Padova, also known as Padua in English, is nowadays a pleasant destination for culture-, arts- and history-based tourism.

It has been founded well before Roman times and since then has played a pivotal role in the Veneto region as a market and as a cultural center. This long history is well testified by the numerous touristic attractions within the city, from ancient roman ruins to medieval walls and cobble-stone streets, from Renaissance cathedrals and churches to modern building and museums. Gems are the *Scrovegni* Chapel painted by Giotto, the Basilica of S. Anthony with its cloisters, statues and paintings and the *Palazzo della Ragione* that

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Istituto Nazionale  
di Fisica Nucleare  
Sez. di Padova

hosts a covered market, as well as many other historical and beautiful buildings and squares such as *Prato della Valle*. Padova is also home to several restaurants, bars and shops that make it very lively, especially during the warm season.

Due to its geographical location, Padova is an ideal basis to visit nearby artistic cities, such as Venice, Verona, Vicenza and Ferrara.

❖ Transportation:

The nearest airport is Venice Marco Polo (~45 Km) where many national and international airlines operate. Padova can be reached from there by taxi, shuttle service, to contact at least one business day in advance, Airservice +39 049 8704425 - from Monday to Friday, from 9:00 am to 8:30 pm - Saturdays, Sundays and holidays from 9:30 am to 12:00 am and from 4:30 pm to 8:00 pm or by mail at [booking@airserviceshuttle.it](mailto:booking@airserviceshuttle.it) or Landomas +39 049 8600382 - from Monday to Friday, from 9:00 am to 5:00 pm or by mail at [landomas@landomas.it](mailto:landomas@landomas.it) (average rate about 31/35 euro per person). You can also take at Venice Airport a bus FSBUSITALIA (8,50 euro or € 10 if purchased on board). It takes about one hour drive.

Treviso (50 Km) and Verona (80 Km) airports are also close enough and provide easy access. Shuttle buses and train services from Verona and Treviso are available and there is a direct connection from the airports to both Verona and Treviso railway station.

Milano-Bergamo (200 km), Milano-Linate (230 km), Milano-Malpensa (270 km) and Bologna (120 km) are additional options, but must be supplemented by train connections.

❖ Registration and Accommodation:

Details on the registration procedure, conference fee and accommodation in Padova hotels will be available on the Workshop web page with the second circular that will be mailed before the end of 2017.

SAVE THE DATES!

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