

**The 9<sup>th</sup> International Symposium on Nuclear Symmetry Energy**  
**(NuSYM2019)**

Danang City, Vietnam, September 30 – October 4, 2019,

<https://nusym2019.ispun.vn/>

Dear colleague,

We are very pleased to announce that 9<sup>th</sup> International Symposium on Nuclear Symmetry Energy (NuSYM2019) will be held in Danang City (Vietnam) on September 30 – October 4, 2019. The main organizer of NuSYM2019 is the Institute for Nuclear Science and Technology (INST), VINATOM, and its counterparts in the international collaboration in nuclear physics research. Like meetings of the ISPUN series, it is expected to be officially supported and endorsed by Ministry of Science & Technology of Vietnam (MOST), Asian Nuclear Physics Association (ANPhA), and other nuclear physics institutions.

Following the tradition of the previous NuSYM symposia, NuSYM2019 is aimed to host synergies between the studies of nuclear structure, of nuclear reactions and of astrophysics, including new exciting ideas and all possible breakthroughs. The nuclear symmetry energy and its density dependence are known to govern to a large extent the physics of nuclear masses and radii, the collective excitations at moderate excitation energies, up to the dynamics and observables of the high-energy heavy-ion collisions that explore regimes characterized by higher densities and isospin asymmetry of nuclear matter, especially, with radioactive beams. Last but not least, the understanding of the density dependence of nuclear symmetry energy is of paramount importance in the context of the forefront research related to the astrophysical modelling of the stellar and explosive nucleosynthesis, of supernovae and kilonovae (first observed in the aftermath of GW170817), as well as of the properties of neutron stars and their mergers. In summary, NuSYM2019 is expected to provide a productive forum for the scientists working in this exciting and interdisciplinary field of research that includes the impact of the symmetry energy on nuclear structure, nuclear correlations and clustering, nuclear reaction and related simulation codes, as well as the properties of the astrophysical compact objects, their formation from core-collapse supernovae, their merger that leads to the emission of gravitational waves.

## **1. Topics to be covered at the symposium**

- \* General presentations on symmetry energy, EOS of nuclear matter and neutron star.
- \* Nuclear structure aspects of the symmetry energy.
- \* Imprints of nuclear symmetry energy in the astrophysical observations.
- \* Symmetry-energy effects in heavy-ion collisions and direct nuclear reactions.
- \* Other experimental projects (being carried out or planned).

## **2. International advisory committee**

Tom Aumann (TU Darmstadt & GSI)

Abdelouahad Chbihi (GANIL)

Maria Colonna (INFN LNS)

Pawel Danielewicz (MSU/NSCL)

Charles Horowitz (Indiana University)

Jerzy Lukasik (IFJ-PAN)

Akira Ono (Tohoku University)

Wolfgang Trautmann (GSI Darmstadt).

Betty Tsang (MSU/NSCL)

Giuseppe Verde (IPN-Orsay & INFN Catania)

Hermann Wolter (University of Munich)

Zhigang Xiao (Tsinghua University, Beijing)

Sherry Yennello (Texas A&M)

## **3. Organizing committee**

Dao Tien Khoa (INST Hanoi)

Gianluca Colò (University of Milan & INFN Milan)

Phan Viet Cuong (VINATOM Hanoi)

Byungsik Hong (Korea University, Seoul)

Bao-An Li (TAMU-Commerce, Texas)

Jerome Margueron (IPN Lyon).

#### **4. Symposium site and important dates**

Danang is located on the halfway between Hanoi and Ho Chi Minh City. It's the fourth largest city in Vietnam. Apart from the shopping highlights and historical sights, the main reason for the visitors coming here is its proximity to the well-known beaches like My Khe Beach and Lang Co Beach, to the ancient town Hoi An (World Heritage Site) and My Son. From Danang one can also easily reach Hue by car. Hue is a beautiful city - former capital of the Kingdom of Vietnam.

NuSYM2019 will be held from September 30<sup>th</sup> to October 4<sup>th</sup>, 2019, in the center of Danang City, in the 5\* One Opera Hotel (<http://oneopera.vn/en/about-us/>). The registration will start at 5.30 pm, on Sunday, September 29<sup>th</sup>, 2019, at the reception of the One Opera Hotel. Those who have not paid the registration fee should pay it at the registration desk either in cash or with one of the major credit cards. The symposium will start at 8.30 am, on Monday, September 30<sup>th</sup>, 2019, and will end on Friday afternoon, October 4<sup>th</sup>, 2019. A half-day tour to “Ngu Hanh Son” (Five Marble Mountains) near Danang, and to Hoi An will be organized for all participants and accompanying persons during the symposium period.

#### **5. Presentations at NuSYM2019**

Those who wish to submit a contribution to NuSYM2019 should attach *a one-page abstract* (in pdf) to their pre-registration information before **June 1<sup>st</sup>, 2019**. The symposium talks will be selected from the submitted contributions on the topics of the symposium. The authors will be informed about the decision on their contributions well before July 1<sup>st</sup>, 2019, and the scientific program of NuSYM2019 will be announced soon after this deadline. The invited speakers should also submit the abstracts of their talks by this deadline. The book of all submitted abstracts will be distributed to each participant at the registration desk.

#### **6. Entry visa for Vietnam**

Holders of passport of several European countries (Denmark, Finland, France, Germany, Italy, Norway, Russia, Spain, Sweden, UK), Japan, South Korea, and ASEAN countries can enter Vietnam without visa for a short visit up to 15 days. In any case, we recommend all foreign participants and accompanying persons to contact the international travel agent or Vietnamese Embassy (Consulate) nearest to their residence for the *updated visa information*. Our travel agent

will also assist the registered participants and accompanying persons to *get Vietnamese visa directly at the airport immigration service upon their arrival.*

## **7. Accommodation and conference fee**

The organizing committee managed to get a conference package rate (around 65 USD/night for a standard double room) at the One Opera Hotel in Danang for all NuSYM2019 participants and accompanying persons. Participants who prefer cheaper accommodation can make their booking at several 3\* hotels located nearby by themselves using different online booking services.

The conference fee of 350 USD will be collected from each participant, and a reduced fee of 300 USD will be collected from the accompanying person and PhD student. Apart from the expenses of the symposium organization, the conference fee also covers all lunches, the welcome reception and conference dinner, the excursion, and the airport pick-up and drop-off.

The link for the registration, hotel reservation, and payment of the conference fee will be available on the symposium website before July 1<sup>st</sup>, 2019. The early registrants will be offered a free upgrade to the deluxe room at the One Opera Hotel.

## **8. Pre-registration**

Those interested in attending NuSYM2019 are kindly asked to pre-register online before ***June 1st, 2019*** (<https://nusym2019.ispun.vn/pre-registration>). *All further communications on NuSYM2019 will be sent to the email addresses of the pre-registered participants only.*

## **9. Contact address**

### **NuSYM2019 Secretariat**

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