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## Third circular

**Dear Colleagues,**

We are pleased to announce that the **16<sup>th</sup>** International Symposium on **Origin of Matter and Evolution of Galaxies (OMEG16)** will be held in **Hanoi, Vietnam**. The symposium will be organized in hybrid mode, **on-site** and **online**, from **25 to 28 October 2022**.

OMEG16 belongs to a series of biannual symposium started in 1988, bringing together researchers and students from interdisciplinary fields of nuclear physics, particle physics, astronomy, astrophysics, and earth and planetary physics to address and discuss various questions on the origin of matter and evolution of the universe.

Following the success of previous OMEG symposiums, which was recently held in Beijing, China (2015), Daejeon, Korea (2017), and Kyoto, Japan (2019), OMEG16 will facilitate stimulus exchange through a scientific program that covers the most recent experimental and theoretical advances in the following topics:

1. Big Bang Cosmology and Primordial Nucleosynthesis
2. First Generation Stars and Galactic Chemical Evolution
3. Astronomical Observations with Light, X-Ray, Gamma-Ray, and Cosmic-Ray
4. Stellar Evolutions and Hydrostatic Burning Processes
5. Nuclear Matter and Neutron Stars
6. Explosive Stellar Objects and Nuclear Physics
7. Meteorite Analysis and Isotopic Abundance
8. Theoretical Nuclear Physics for Astrophysics
9. Experimental Nuclear Physics for Astrophysics
10. Nuclear Data for Astrophysics and Related Topics
11. Underground Nuclear Astrophysics
12. Next generation RI Beam Facilities for Nuclear Astrophysics

### **OMEG16 School**

A two-day school just before the symposium will be organized by the LOC of OMEG16 in collaboration with lecturers from Hanoi University of Science. The school will provide

bachelor and master students with introductory courses on nuclear astrophysics. The details of the school will be provided on the symposium website.

### **Poster session**

Three minute-presentation time will be allocated for all the poster presentations.

### **Invited Speakers**

- Wako Aoki (NAOJ, Japan)
- Brian Fields (Univ. of Illinois Urbana-Champaign, USA)
- Bingshui Gao (The Univ. of the Chinese Academy of Sciences, China)
- Kelvin Hahn (IBS, Korea)
- Takechito Hayakawa (Quantum Beam Institute, Japan)
- Seiya Hayakawa (CNS, The Univ. of Tokyo, Japan)
- Jian Jun He (Beijing Normal Univ. China)
- Alexander Heger (Monash Univ., Australia)
- Schatz Hendrik (Michigan State University, USA)
- Toshitaka Kajino (Beihang Univ., China)
- Chiaki Kobayashi (University of Hertfordshire, UK)
- Maria Lugaro (LANL, USA)
- Sarah Naimi (IN2P3, France)
- Quang Hung Nguyen (Duy Tan Univ., Vietnam)
- Quynh Lan Nguyen (Univ. of Notre Dame, USA)
- Vi Ho Phong (RIKEN, Japan)
- Toshio Suzuki (Nihon Univ., Japan)
- Hideyuki Tagoshi (ICRR, The Univ. of Tokyo, Japan)
- Michiharu Wada (KEK, Japan)
- Matthew Mumpower (Los Alamos Laboratory, USA)
- William G. Lynch (MSU, USA) (TBC)

### **Venue**

Symposium venue: **La Thanh Hotel**

**Address: 218 Doi Can, Ba Dinh, Hanoi, Vietnam.**

About 30 minutes by taxi/bus from the Noi Bai International Airport (HAN) to La Thanh Hotel.

### **Proceedings**

All accepted papers will be published in **Communications in Physics** (ISSN 0886 – 3166, founded by the Vietnam Academy of Science and Technology).

The journal has been published quarterly in English since 1991 on new results of theoretical and experimental research works in all fields of physics.

### **Important Dates**

Call for abstract: **April 15<sup>th</sup>, 2022**

Deadline for abstract submission: **August 20<sup>th</sup>, 2022**

Registration: **April 15<sup>th</sup> – October 24<sup>th</sup>, 2022**

### **Abstract submission guideline**

Please follow the [instructions](#) and fill out the submission form with the title, author list, content (about 300 words), main topic, and contribution type (oral/poster).

<https://indico.maygiatoc.com/event/1/>

### **Symposium fee**

In-person registration: 150 USD

Student: 50 USD

Online registration: 30 USD

### **Accommodation**

- Since the symposium hotel has a large number of rooms, you may reserve easily a room directly or through some booking site, like agoda.com.
- La Thanh Hotel (Symposium place – recommended). The average room rate is around 50 USD/night.
- There are some other hotel choices that may have better rates (see details on the symposium website).

### **Traveling**

#### **In Hanoi City:**

- Hanoi Old Town Quarter
- Hoan Kiem Lake
- Temple of Literature
- Vietnam Museum of Ethnology
- Hoa Lo Prison Museum
- Fine Art Museum
- Imperial Citadel

#### **Near Hanoi City:**

- Ha Long bay (Quang Ninh Province: Ha Long Bay Full-Day Guided Tour: <https://www.getyourguide.com/ninh-binh-11232/halong-bay-full-day-tour-cave-kayaking-meal-bus-guide-t419910/>)
- Trang An Landscape Complex (Ninh Binh Province: <https://www.getyourguide.com/hanoi-1205/from-hanoi-bai-dinh-trang-an-and-mua-cave-full-day-tour-t184820/>)

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- Vietnam Physical Society (VPS)

## Website and Contact address

OMEG16 Website: <https://iop.vast.ac.vn/~omeg16/>

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