



<https://iop.vast.ac.vn/~omeg16/> | omeg16@iop.vast.vn

Final circular

Dear Colleagues,

We are pleased to announce that the **16th 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 is provided on the symposium website.

A TENTATIVE SHEDULE OF OMEG SCHOOL

October 23 (Sunday) morning

8:00 – 9:30: S. Kubono: Introduction to nuclear astrophysics

10:00 – 11:30: W. Aoki: Astronomy observation I

October 23 afternoon

13:00 – 14:30: S. Kubono: Experimental Approach to Explosive nuclear burning in Stellar Objects

15:00 – 16:30: W. Aoki: Astronomy observation II

October 24 (Monday) morning

8:00 – 9:30: Y. Panebrattsev: Nuclear experimental method

10:00 – 11:30: T. Kajino: Theoretical approach I; nuclear physics

October 24 afternoon

13:00-14:30: T. Kajino: Theoretical approach II; astrophysics

15:00-16:30: Free discussion

Poster session

Three minute-presentation time with pre-recorded videos will be allocated for all the poster presentations. The authors should send their videos and poster files to the organizer before 18 October to omeg16@iop.vast.vn. All the posters will be printed out by the organizers.

Invited Speakers

- Wako Aoki (NAOJ, Japan)
- Brian Fields (Univ. of Illinois Urbana-Champaign, USA)
- Bingshui Gao (Institute of Modern Physics, China)
- Kelvin Hahn (IBS, Korea)
- Takehito Hayakawa (National Institutes for Quantum Science and Technology, 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 (Konkoly Observatory, Hungary)
- 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**

The venue is 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.

Abstract and full manuscript submission guideline

Participants with reports (invited, oral and poster presentations) need to prepare a full manuscript to send to the Symposium Organizing Committee to email addresses by **15 November 2022**: lhkiem@iop.vast.vn and omeg16@iop.vast.vn. The maximum number of pages is 8 for invited presentation, 6 for oral presentation, and 4 for poster presentation. More detailed instruction can be found at <https://vjs.ac.vn/index.php/cip/about/submissions>

Symposium fee

In-person registration: 150 USD (students: 50 USD), pay by cash at the registration desk

Online registration: 30 USD

The registration fee should be bank-transferred to the bank below by **20 October 2022**

Bank name: Joint Stock Commercial Bank for Foreign Trade of Vietnam

(Vietcombank), Thanh Cong Branch

Bank address: 1 Thai ha, Trung Liet ward, Dong Da district, Hanoi, Vietnam

SWIFT code: BFTVNVX

Account No./IBAN: 1030182179

Name: Nguyen Thi Xuan Thai

Address: 47 Luong Su B, Van Chuong, Dong Da, Ha Noi, Vietnam

Contact info: (e-mail) xuanthai.ncs@gmail.com; (phone) 0904038558

Banquet fee: 20 USD

The banquet fee is collected only for those who registered to attend on the third day (**27 October 2022**) of the symposium at the symposium site.

Accommodation

- La Thanh Hotel where the symposium venue is located is recommended. The average room rate is ~50 USD/night.
- Since La Thanh Hotel has a large number of rooms, you may easily reserve a room directly by email at: nklathanh@gmail.com or nguyenlinhchi43@gmail.com.
- There are some other hotel choices that may have better rates (see details on the symposium website).

Visit and sightseeing

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/>)

Useful information

- Transportation: Please visit <https://iop.vast.ac.vn/~omeg16/prearrival/> (for information from Noi Bai International Airport to the symposium venue and also to your hotels)
- Covid-19 regulations: Currently, Vietnam applies NO QUARANTINE and NO COVID TEST for entrants, no matter whether they are Vietnamese citizens, or foreigners, entering Vietnam for tourism or business
- Currency exchange: There are international currency exchange offices right after the exits of the Noi Bai International Airport. You can also do it easily in the hotel in Hanoi or find an office nearby in the city downtown.
- Weather: In October, air temperatures decrease in Hanoi. In general, minimum temperatures range between 17°C (62.6F) and 26°C (78.8F). Maximum temperatures vary from 23°C (73.4F) to 33°C (91.4F)
- One can use only Vietnamese currency Dong in Vietnam
- Urgent contacts: 0389677899 (Mr. Pham Ngoc Diep) or 0902289181 (Mr. Le Xuan Chung)

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- Research Center for Nuclear Study, Osaka University
- Vietnam Physical Society (VPS)

Website and Contact address

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