

Symposium on Nuclear Physics Frontiers and Intersections

1st Announcement

Dear Colleagues,

We are pleased to announce the **Symposium on Nuclear Physics Frontiers and Intersections (SYNPFI)** that will take place in Tsinghua University (Beijing, China) during **March 24-27, 2022** (Arrival March 24, Departure March 27).

Scope

Modern nuclear physics relies on the development of technologies ranging from large-scale facilities and detectors to high-performance electronics as well as advanced information technologies. And in turn, the development of nuclear physics and the related instrumentation and methods brings enormous beneficial applications to various industrial fields.

With the following motivations, the Department of Physics, Tsinghua University is to host the SYNPFI at its 40th anniversary of reestablishment. SYNPFI will concentrate on the advances in fundamental studies of the nuclear physics and the intersectional technologies and applications. An important role of the symposium is to identify the frontiers of intensive common interest in nuclear physics and to promote the exchange of multidisciplinary intelligence. The program of SYNPFI will cover the current state of research and the anticipated development trends in various fields. The workshop will provide a convenient venue and time for discussions of burning experimental and theoretical problems and of the future directions as well as to advance collaborations in nuclear physics and the related technologies.

Physics topics

SYNPFI will cover the following topics:

- hadron structure and hadron matter
- progress in nuclear spectroscopy
- intersections of deep underground and outer space physics
- new facilities and new instruments
- machine learning in nuclear physics

Advisory Committee

Lie Wen Chen (STJU)

Wei Ping Liu (CIAE)

Xin Chun Lai (CAEP)

Zuo Tang Liang (SDU)

Zhong Zhou Ren (TJU)

Chang Pu Sun (CAEP)

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Peng Fei Zhuang (THU)

Bing Song Zou (ITP, CAS)

Hong Wei Zhao (IMP, CAS)

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Registration and Abstracts

The webpage of the symposium, <https://indico.ihep.ac.cn/event/15869/>, is ready for registration. Supposedly the oral presentations are per invitation. But if you are interested to give a presentation, please submit an abstract at the same website. The deadline for abstract submission is **Feb. 28, 2022**.

Accommodation and travel

Preliminary information on lodging and travel will be available on the website. Further details will be updated as soon as they become available.

COVID-19 issues

We hope it will be allowed to gather in Tsinghua University for an on-site meeting. Should there is increasing risk of the COVID-19 situation, we will have the symposium on line.

Local Organizing Committee:

Zhi-Gang Xiao (Chair), Zhi-Hong Ye, Fei Gao, Zhe Xu, Xiang-Lei Zhu, Qian Wang (secretary)

Contact

Please mark your calendar and circulate this announcement among your colleagues. Participation of young researchers is strongly encouraged. If you have suggestions for speakers or know of exciting new results close to mentioned topics, please do not hesitate to contact us at qianw@tsinghua.edu.cn.

We look forward to seeing you in Beijing.