

## YITP Long-term Workshop

### “Computational Advances in Nuclear and Hadron Physics (CANHP 2015)”

Yukawa Institute for Theoretical Physics (YITP), Kyoto University, Japan

21 September (Mon) - 30 October (Fri), 2015.

#### Second circular

<http://www2.yukawa.kyoto-u.ac.jp/~canhp2015/canhp2015@yukawa.kyoto-u.ac.jp>

The long term workshop “Computational Advances in Nuclear and Hadron Physics” (CANHP 2015) will be held at Yukawa Institute for Theoretical Physics (YITP), Kyoto University, Kyoto, Japan, from 21 September (Monday) to 30 October (Friday), 2015. This workshop will be devoted to addressing a wide range of problems in low-energy nuclear physics and hadron physics, and high performance computing in nuclear physics. Seminars will be held in the mornings, and afternoons will be used for discussions. No formal program or agenda is planned for the weekends. One day will be devoted to a workshop each week.

The topics that will be discussed include:

- 1) First week: High-performance computing in nuclear and hadronic physics: challenges and opportunities
- 2) Second week: Large-scale configuration interaction approaches
- 3) Third week: From quarks to nucleons: nuclear forces and few-body systems from LQCD
- 4) Fourth week: Ab initio theories of nuclear structure and reactions
- 5) Fifth week: Modern nuclear density functional theory and its applications
- 6) Sixth week: Nuclei and hadrons as open quantum systems

For the first week, another international workshop of “Selected topics in the physics of the Quark-Gluon Plasma and Ultrarelativistic Heavy Ion Collisions (Sep. 7-25)” will be

held at YITP, which overlaps with our long-term workshop. This workshop is to discuss with Prof. Jean-Paul Blaizot, who stays at YITP as a visiting professor. They are going to arrange talks also on national holidays (21, 22, 23 Sep.). The participants of our workshop can attend their sessions as well. In the second week, on 5 Oct. (Mon), one day mini-symposium on ``Computational Physics for High-Energy Heavy-Ion Collisions” <http://www2.yukawa.kyoto-u.ac.jp/~canhp2015/cphehic.html> will be held as a part of our workshop, and this is one of satellite meetings of Quark Matter 2015.

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Expected participants  
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You can find the list of expected participants here:  
[http://www2.yukawa.kyoto-u.ac.jp/~canhp2015/expected\\_participants.pdf](http://www2.yukawa.kyoto-u.ac.jp/~canhp2015/expected_participants.pdf)

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Conference site  
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YITP has two buildings, Research building and Yukawa Memorial Hall. Most of the sessions will be held at Panasonic auditorium in Yukawa Memorial Hall.

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Access to YITP  
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The access to YITP can be found here  
<http://www.yukawa.kyoto-u.ac.jp/english/contents/guide/map.html>

Kyoto is located very far from airports.

\*Kansai International Airport (KIX) is closer than Tokyo/Narita Airport (another option is Nagoya/Chubu Centrair).

\*From Osaka/Kansai airport, you can take a shared taxi which directly takes you to your final destination, but in this case reservation is needed :

Yasaka Airport Shuttle (only to/from KIX)

-> <http://www.yasaka.jp/english/shuttle/index.html>

MK Skygate Shuttle (to/from KIX and ITM)

-> <http://www.mktaxi-japan.com/#!/kyoto---airport/caeh>

Or, if you arrive at JR Kyoto Station, you can take a city-bus lines to YITP. It costs 230 JPY and normally takes 30-40 minutes. At the bus stop "Kyoto Eki Mae" located just in front of JR Kyoto station, please take the city bus No.17 for "Ginkakuji, Kinrin Shako" and get off at "Kyodai-Nogakubu-Mae". Please note that city bus is green colored one and different from Kyoto bus.

- Map around YITP:

<http://www.yukawa.kyoto-u.ac.jp/english/contents/guide/map1.html#02>

- Kyoto Bus map:

<http://www.city.kyoto.lg.jp/kotsu/cmsfiles/contents/0000019/19770/busnavi-e2011.pdf>

- Kyoto Metro map:

<http://www.city.kyoto.jp/koho/eng/access/subway.html>

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Registration  
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Registration can be made here

[http://www2.yukawa.kyoto-u.ac.jp/~yipqs.project/form\\_e.php?id=299](http://www2.yukawa.kyoto-u.ac.jp/~yipqs.project/form_e.php?id=299)

and please finish before 31 July.

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Hotel reservation  
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Hotel reservation can be made here.

\* Accommodation reservation (travel agency):

<http://www.ec-knt.jp/CANHP2015/index.html>

\* Hotel map:

<http://www.ec-knt.jp/CANHP2015/map.html>

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National Holidays  
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Please note that 21, 22, 23 Sep, and 12 Oct are national holidays, but sessions may be held dependent number of participants.

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Library and Computer Rooms  
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The YITP library is located on the 3rd floor of Research building. It is open from 9:00 to 17:00. After 17:00, you can open the library doors with your card key. Computer room is on the 2nd floor of Research Building. You also need the card key after 17:00.

Organizers -----

T. Ichikawa (YITP), N. Itagaki (YITP, Chair), M. Matsuo (Niigata), W. Nazarewicz (Michigan State/ORNL), H. Nemura (Tsukuba), N. Shimizu (CNS), K. Yoshida (Niigata)

International Advisory Committee -----

S. Aoki (YITP), J. Carlson (Los Alamos), J. Dobaczewski (Warsaw/Jyvaskyla), Z. Fodor (Wuppertal), P-H. Heenen (Brussels), U. Meissner (Bonn), T. Nakatsukasa (Tsukuba/RIKEN), P. Navratil (TRIUMF), T. Hatsuda (RIKEN), T. Otsuka (Tokyo), P. Ring (Munich), M. Płoszajczak (GANIL), M. Savage (INT), A.W. Thomas (Adelaide), J. Vary (Iowa), K. Yabana (Tsukuba)