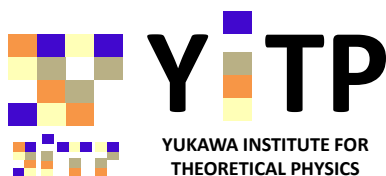


YIPQS long-term workshop  
**“Mean-field and Cluster Dynamics  
in Nuclear Systems 2022 (MCD2022)”**

9 May – 17 June, 2022

<b>Onsite venue</b>	Panasonic Hall at Yukawa Institute for Theoretical Physics, Kyoto University Access: <a href="https://www.yukawa.kyoto-u.ac.jp/en-GB/contents/guide/map">https://www.yukawa.kyoto-u.ac.jp/en-GB/contents/guide/map</a> (indicated as “Yukawa Hall”)
<b>Online venue</b>	Zoom See another PDF file or ask LOCs for Zoom URL



Yukawa Institute for Theoretical Physics, Kyoto University  
Kitashirakawa Oiwakecho, Sakyo-ku, Kyoto 606-8502 Japan  
TEL: +81-75-753-7000 | [mcd2022@yukawa.kyoto-u.ac.jp](mailto:mcd2022@yukawa.kyoto-u.ac.jp) |  
[www2.yukawa.kyoto-u.ac.jp/~mcd2022/](http://www2.yukawa.kyoto-u.ac.jp/~mcd2022/)

## Morning session

Chair: N. Hinohara (Tsukuba)

- |                               |                                |  |
|-------------------------------|--------------------------------|--|
| 10:00—11:00<br>(50 + 10 min.) | <b>N. Kobayashi</b><br>(RCNP)  | <i>Invited presentation</i><br>“PANDORA Project - Measurements of photo-nuclear reaction cross sections at RCNP” |
| 11:00—12:00<br>(50 + 10 min.) | <b>N. Shimizu</b><br>(Tsukuba) | <i>Invited presentation</i><br>“Shell model study towards astrophysical applications”                            |

## Afternoon session

Chair: N. Hinohara (Tsukuba)

- |                               |                                   |  |
|-------------------------------|-----------------------------------|--|
| 13:30—14:10<br>(30 + 10 min.) | <b>F. Minato</b><br>(JAEA)        | “Effects of continuum states on particle emissions from muon captures”                         |
| 14:10—14:50<br>(30 + 10 min.) | <b>Y. Tanimura</b><br>(Tohoku)    | “Generator coordinate method with variational basis generation”                                |
| 14:50—15:30<br>(30 + 10 min.) | <b>T. Otsuka</b><br>(Tokyo/RIKEN) | “Monopole-quadrupole interplay in nuclear structure and resulting self-organization phenomena” |

## June 15 (Wednesday)

Time: JST = UTC+9

### Afternoon session

Chair: K. Hagino (Kyoto)

16:30—17:10 (30 + 10 min.)	<b>K. Uzawa</b> (Kyoto)	“Microscopic description of nuclear fission based on the generator coordinate method”
17:10—17:50 (30 + 10 min.)	<b>K. Washiyama</b> (Tsukuba)	“Collective inertia in spontaneous fission and large-amplitude collective motion”

#### Break

Online	18:05—19:05 (50 + 10 min.)	<b>L. M. Robledo</b> (Madrid)	<i>Invited presentation</i> “Theoretical developments for fission studies”
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## June 16 (Thursday)

Time: JST = UTC+9

### Morning session

Chair: K. Hagino (Kyoto)

10:00—10:40 (30 + 10 min.)	<b>K. Abe</b> (Chiba)	“Microscopic study on the origin of the rotational band of nuclei”
10:40—11:20 (30 + 10 min.)	<b>K. Sato</b> (Kochi)	“Large-amplitude collective dynamics with the adiabatic SCC theory including the second-order collective operator”
11:20—12:00 (30 + 10 min.)	<b>P. Moller</b> (Lund)	“The many contributions of mean-field theory to the understanding of super-heavy element stability”

## June 17 (Friday)

Time: JST = UTC+9

### Free discussion