

Application Form for RIBF ULIC **Mini-Workshop**

Date: 2014/5/9
 send to: [sympo-kyoyo\[at\]ribf.riken.jp](mailto:sympo-kyoyo[at]ribf.riken.jp)

1) Scheduled Date and Place of the mini-WS

Date: 2014/5/31 (yyyy/mm/dd) ~ 2014/5/31 (yyyy/mm/dd) (Number of Days: 1 days)
 Place: RIBF #203

Prior to fixing date(s) of the symposium, please contact "Nuclear Physics Seminar Organizing Committee, RIKEN Nishina Center (NPSOC)" at npsoc@ribf.riken.jp so as not to overlap your application with seminars or conferences in Nishina Center organized by NPSOC.

2) Title The way to evaluate the inelastic channel in the proton resonance elastic scattering

For approved proposals, title of the mini-WS will be published in RIKEN Accelerator Progress Report.

3) Brief Description (Free Format, in approx. 300 words)

We have been applying the proton resonance elastic scattering in the inverse kinematics to study the structures of neutron-rich nuclei. In the analysis, we assumed only the elastic channel to deduce the reaction energy with the kinematics of the elastic scattering. In the case of IARs of ^{35}Si , which were measured at RIPS, the first excited state of ^{34}Si is as high as 3.3 MeV so that the effect of the inelastic channel is negligible. However, when we try to apply the method to other weakly-bound neutron-rich nuclei in the near future, the inelastic channel would not be negligible any more. Indeed, the recent experimental results of $^7\text{Be}+p$ reaction by CNS and FSU were inconsistent mainly due to the way to evaluate the inelastic channel. We try to understand the origin of the inconsistency and to discuss the setup to be developed for future experiments at RIBF.

4) Contact Persons

All contact persons should be listed. Please add extra lines if needed.

| | Name | Institute | Tel | E-mail |
|---------------------------|-----------------|-----------|----------|--|
| Primary Contact *1 | Nobuaki Imai | KEK | ex. 4782 | nobuaki.imai@kek.jp |
| Contact Person 2 | | | | |
| Contact Person 3 | | | | |
| Contact Person at RIBF *2 | Tomohiro Uesaka | RNC | | |

*1 It is advisable that a primary contact person is from an institution other than RIBF.

*2 If no one belongs to RIBF, please contact ULIC.

5) Participants List and Request for Financial Support

All participants should be listed. Please add extra lines if needed.

| Name | Institute & Position | Estimate of support | | | | |
|-------------------|---------------------------|--------------------------|------------------|------------------|----------|----------|
| | | Local transport expenses | | Lodging expenses | | |
| | | Route | Estimated Amount | Price | Night(s) | Total |
| S. Sakaguchi | Kyushu Univ./Ass. Prof. | | ¥ - | | | ¥ - |
| Takashi Teranishi | Kyushu Univ./A. Prof. | 箱崎九大前⇄和光市 | ¥ 45,000 | ¥ 6,720 | 1 | ¥ 6,720 |
| G. Rogachev | FSU/Prof. | 関内⇄和光市 | ¥ 5,000 | ¥ 6,720 | 2 | ¥ 13,440 |
| H. Yamaguchi | CNS/Lecturer | | | | | ¥ - |
| D. Kahl | CNS/PD | | | | | ¥ - |
| N. Imai | KEK/Ass. Prof. | | | | | ¥ - |
| Y. Hirayama | KEK/Ass. Prof. | | | | | ¥ - |
| Y. Watanabe | KEK/Lecturer | | | | | ¥ - |
| H. Miyatake | KEK/Prof | | | | | ¥ - |
| S.C. Jeong | KEK/Prof | | | | | ¥ - |
| S. Kimura | ISUKUBA UNIV./PHD student | | | | | ¥ - |
| M. Mukai | ISUKUBA UNIV./PHD student | | | | | ¥ - |
| TOTAL | | | ¥ | | | 70,160 |

All of participants should be listed with a request of local transport and lodging expenses, if any.

- [Notes]
- Only local transport and lodging expenses in JAPAN will be provided. Overseas travel expenses will not be provided.
 - Those who come from Tokyo area will not be supported.
 - ULIC supports actual expenses.
 - Maximum amount of lodging expenses is 6,720 JPY/night.

- Refreshments (coffee etc.)

This is not provided for mini-WS.

Request for Financial Support

¥

70,160

Maximum amount of financial support is 150,000 JPY.