

# Program of the International Collaboration Workshop 2006

## ICW2006

6<sup>th</sup> to 9<sup>th</sup> November 2006

### Nishina-hall at RIKEN Wako-campus

#### November 6<sup>th</sup> (Monday)

9:30-10:45 Chairperson: W.Mittig (Ganil and Riken)

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9:30-9:40 Y. Yano ,Riken

Welcome address

9:40-10:10 H. Sakurai, Riken

Overview of the RIBF facility

10:10-10:30 A.Goto, Riken

Present Status of the Accelerator Construction and Commissioning

10:30-10:45 T.Motobayashi, Riken

PAC scheme

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\*\*\*\*\* Coffee Break \*\*\*\*\*

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11:15-12:05 Chairperson: C.Scheidenberger (GSI)

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11:15-11:45 T.Kubo, Riken ([begin topic 3](#))

Search for New isotopes, Measurement of production cross-sections with primary and secondary beams at BigRIPS/ZeroDegree

11:45-12:05 T. Ohnishi, Riken

Beam Line Detectors+DAQ

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\*\*\*\*\* Lunch \*\*\*\*\*

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14:00-15:45 Chairperson: Yanlin Ye (Peking University)

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14:00-14:25 J.Nolen, ANL

Production cross sections with fission-fragment beams

14:25-14:45 M.Fukuda, Osaka Univ.

Total reaction cross-section measurement at RIBF

14:45-15:05 K.Yoneda, Riken([end topic 3](#))

In beam gamma spectroscopy of unstable nuclei:  
two-step fragmentation and knockout reaction

15:05-15:25 K.Sekiguchi, Riken ([begin topic 8](#))  
 Three Nucleon Force Study with Polarized Deuteron Beams

15:25-15:45 K.Itahashi, Riken ([end topic 8](#))  
 Systematic Studies of Pionic Atoms

15:45-16:05 M. Carpenter, ANL  
 Present status and future plan of Gammasphere

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 \*\*\*\*\* VISIT of the RIBF \*\*\*\*\*  
 \*\*\*\*\* Free Discussions \*\*\*\*\*  
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 18:00 -20:00 Buffet of ICW2006  
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**November 7<sup>th</sup> (Tuesday)**

9:00-10:45 Chairperson: M.Lewitowicz (Ganil)  
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9:00-9:30 K.Morita, Riken ([begin topic 9](#))  
 TBA (on SHE)

9:30-9:50 A.Gillibert, SPhN Saclay  
 The S<sup>3</sup> project at Ganil

9:50-10:10 Y.Aritomo, JINR  
 Fusion Hindrance and Roles of Shell-effects in the Superheavy Mass  
 Region

10:10-10:30 E.Ideguchi, CNS  
 Study of high-spin states at RIBF

10:30-10:45 Y. Watanabe. KEK ([end topic 9](#))  
 Study of isotope dependence of fusion process

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 \*\*\*\*\* Coffee Break \*\*\*\*\*  
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11:00-12:00 Chairperson: T.Motobayashi (Riken)  
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11:00-11:20 W.Lynch, NSCL MSU([begin topic 7](#))  
 TBA

11:20-11:40 T.Murakami, Kyoto Univ.  
 TBA

11:40-12:00 Deqing Fang, SINAP ([end topic 7](#))  
 Nucleon Nucleon Correlations Function in Reactions Induced by  
 Exotic Nuclei

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\*\*\*12:00 departure for visit of Heirin-ji +Udon\*\*\*  
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14:45-16:35 Chairperson: A.Korcheninnikov (Kurchatov Inst.)  
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14:45-15:15 S. Shimoura, CNS (begin topic 4)  
Physics programs at Sharaq

15:15-15:35 H. Okamura, RCNP  
TBA (on (d,2He))

15:35-15:55 T. Teranishi, Kyushu Univ.  
Search for  $T=T_z+1$  levels in Neutron Rich Nuclei via (p,n) reactions  
and (p,p) resonant scattering

15:55-16:15 W. Liu, CIAE  
Probing r-process nuclei and search for shell quenching by using  
highly neutron-rich medium mass beam: A SHARP experiment

16:15-16:35 J.Nolen, ANL (end topic 4)  
Comments on Transfer/CEX Experiments at RIBF and  
Collaboration

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\*\*\*\*\* Coffee + discussions \*\*\*\*\*  
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### November 8<sup>th</sup> (Wednesday)

9:00- 10:30 Chairperson: H. Miyatake (KEK)  
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9:00-9:30 S. Nishimura, RIKEN (begin topic 1)  
Decay spectroscopy at RIBF

9:30-9:50 M. Lewitowicz, GANIL  
Decay spectroscopy in the vicinity of  $^{100}\text{Sn}$

9:50-10:10 B. Blank, CEN Bordeaux-Gradignan  
Two-proton radioactivity studies at the BigRIPS

10:10-10:30 B. Rubio, IFIC-CSIC Valencia  
DEcay SPECTroscopy (DESPEC) at the new  
FAIR-NUSTAR facility

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\*\*\*\*\* Coffee Break \*\*\*\*\*  
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11:00- 12:05 Chairperson: B. Blank, CENBG  
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11:00-11:20 A. Odahara, Osaka Univ.  
Search for isomer islands at RIBF

11:20-11:35 Y. Fujita, Osaka Univ.  
Combined Analysis of Isospin Mirror Transitions for the Study of Proton-Rich Far Stability Nuclei"  
11:35-12:05 M.Wada, RIKEN(end topic 1)  
Masses, charge radii, moments and decay studies at SLOWRI in first years

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\*\*\*\*\* LUNCH \*\*\*\*\*  
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13:30-15:55 Chairperson: H.Otsu (Riken)  
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13:30-14:00 T. Kobayashi, Tohoku Univ.(begin topic 5)  
(p,2p) Reactions Using Conventional Detectors at HIMAC and RIBF

14:00-14:30 W.Mittig, Ganil and Riken, for R.Lemmon, Daresbury  
(p,2p) Reaction at GSI and RIBF

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\*\*\*\*\* Coffee Break \*\*\*\*\*  
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14:45-15:15 T.Noro, Kyushu Univ.  
Study of medium effects and single-particle properties by using (p,2p) reactions at RCNP, PNPI and RIBF

15:15-15:35 G. TerAkopian, JINR Dubna  
Knockout Reactions ( $\alpha,2\alpha$ ) and (p,p $\alpha$ ) with  $^6\text{He}$  and (p,2p) with  $^{17}\text{Ne}$

15:35-15:55 T. Uesaka, CNS (end topic 5)  
Quasifree Knockout Reactions with Polarized Protons

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\*\*\*\*\* 5min Break \*\*\*\*\*  
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16:00-18:30 Chairperson: G.Savard (ANL)  
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16:00-16:05 Introduction by K Ieki and N.A.Orr (begin topic 10 )

16:05-16:35 T. Nakamura, Tokyo Inst. Tech.  
Current and Future Plans for Fast Neutron Detection and Experiments at the RIBF

16:35-16:55 N.A.Orr, LPC  
Status of Break-up Experiments at Ganil and Possibilities for Future Experiments at the RIBF

16:55-17:10 H.Scheit, RIKEN  
Status of Break-up Experiments and Fast Neutron Detection at MSU

- 17:10-17:25 Y.Penionzhkevich, JINR  
3He beta-n detection array
- 17:25-17:45 N.A.Orr, LPC  
Present and Future of Beta-n experiments and detection at Ganil
- 17:45-18:05 Y. Hirayama, KEK  
beta-delayed neutron counters - comparison with TONNERRE,  
R&D, Li-glass and future detectors
- 18:05-18:25 Y. Satou, Tokyo Inst. Tech.  
(p,p') and (p,n) with neutron-rich beams
- 18:25-18:40 A.Horvath, Eotvos Lorand Univ. (end topic 10 )  
Neutron Detection for Charge-Exchange and Beta-n Experiments

### November 9<sup>th</sup> (Thursday)

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9:00-10:50 Chairperson: J.Nolen (ANL)

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- 9:00-9:20 T. Kobayashi, Tohoku Univ.(begin topic 11)  
SAMURAI
- 9:20-9:40 M. Wada, Riken  
SLOWRI
- 9:40-10:00 M. Wakasugi, Riken  
SCRIT
- 10:00-10:20 I. Arai, Tsukuba Univ.  
Rare RI ring
- 10:20-10:50 Discussions on new instrumentations and detectors (end topic 11)

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\*\*\*\*\* Coffee Break \*\*\*\*\*

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11:10-12:30 Chairperson: M.Rousseau (IPHC, France)

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- 11:10-11:30 H.Sakaguchi, Miyazaki Univ., (begin topic 2)  
Elastic Scattering with ESPRI at RIBF
- 11:30-11:50 H.Otsu, Riken  
Missing Mass Spectroscopy on Giant Resonances in Inverse  
Kinematics
- 11:50-12:10 A. Gillibert, SPhN Saclay  
Present status of MUST2 and future programs
- 12:10-12:30 Z. Fulop, Atomki (end topic 2)  
(pp') studies at RIPS and RIBF

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\*\*\*\*\* LUNCH \*\*\*\*\*

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14:00-15:30 Chairperson: A.Odahara (Osaka Univ.)

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14:00-14:30 N. Aoi, Riken (begin topic 6)  
In-beam spectroscopy with fast RI beams at RIBF and DALI-2(?)

14:30-14:50 S. Shimoura, CNS  
GRAPE

14:50-15:10 T. Glasmacher, NSCL MSU  
GRETA/GRETINA projects

15:10-15:30 T. Koike, Tohoku Univ.(end topic 6 )  
Hyper-ball

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15:30-16:00 Final Discussion Discussion Leader: T. Glasmacher (NSCL MSU)

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\*\*\*\*\* END of ICW2006 \*\*\*\*\*

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