

# International Workshop on “Physics Opportunities using CAGRA and RCNP tracking Ge detector” (CAGRA17)

Oct 10 – Oct 12, 2017  $\Sigma$  Hall, Toyonaka Campus, Osaka University, Osaka, Japan

## Scientific Program

Tuesday, October 10

Morning I		Chair: T. Koike (Tohoku)
9:30 – 9:40	0:10	<i>Opening</i> Takashi Nakano (Director, RCNP)
9:40 – 10:00	0:20	<i>CAGRA Project at RCNP, Osaka University,</i> Eiji Ideguchi (RCNP)
10:00 – 10:20	0:20	<i>Study of shape coexistence and shape evolution by using RI beam combined with CAGRA and RCNP tracking Ge detector,</i> Atsuko Odahara (Osaka University)
10:20 – 10:40	0:20	<i>The Proton and Neutron Quadrupole Collectivity in <math>^{32}\text{Si}</math>,</i> Hoang Thi Ha (RCNP)
10:40 – 11:10	0:30	Coffee break
Morning II		Chair: K. Yoshida (Kyoto)
11:10 – 11:40	0:30	<i>Physics highlights of Indian National Gamma Array (INGA) campaign at TIFR and the plan for its upgrade,</i> Rudrajyoti Palit (TIFR)
11:40 – 12:10	0:30	<i>Chiral geometry in symmetry restored states: K-Plot and Azimuthal Plot</i> Jie Meng (Peking University)
12:10 – 12:30	0:20	<i>Particle rotor model with chiral basis: purity of chiral geometry and a role of planar component,</i> Takeshi Koike (Tohoku University)
12:30 – 14:00	1:30	Lunch
Afternoon I		Chair: A. Odahara (Osaka)
14:00 – 14:30	0:30	<i>Isomers, Twin Bands, and Yrast Traps in Odd-Odd Nuclides,</i> Chang-bum Moon (Hoseo University)
14:30 – 15:00	0:30	<i>Complementary measurements at HIE-ISOLDE and GAMKA,</i> Senamile Masango (Univ. Of Western Cape)
15:00 – 15:30	0:30	<i>Present status of the KISS project</i> Hiroari Miyatake (KEK)
15:30 – 16:00	0:30	Coffee break
Afternoon II		Chair: T. Shimoda (Osaka)
16:00 – 16:30	0:30	<i>Shapes of medium-mass nuclei studied by Monte Carlo shell model calculations</i> Yusuke Tsunoda (Univ. Of Tokyo)
16:30 – 16:50	0:20	<i>In-beam gamma-ray spectroscopy of <math>^{43}\text{S}</math> via one-neutron knockout reaction,</i> Satoru Momiyama (University of Tokyo)
16:50 – 17:10	0:20	<i>In-beam <math>\gamma</math>-ray spectroscopy of <math>^{54}\text{Ca}</math>,</i> Frank Browne (RIKEN)
17:10 – 17:30	0:20	<i>Spectroscopy of low lying states of <math>^{50}\text{Ar}</math></i> Wilmar Rodriguez Herrera (RIKEN)

Morning I		Chair: H.Miyatake (KEK)
9:30 – 10:00	0:30	<i>X-ray and gamma-ray spectroscopy with MuSIC DC muon beam</i> Akira Sato (Osaka University)
10:00 – 10:20	0:20	<i>Non-destructive elemental analysis of a carbonaceous chondrite with Muon beam</i> Kentarō Terada (Osaka University)
10:20 – 10:40	0:20	<i>Investigation of chemical environmental effect in muon capture processes by measuring cascade muonic X-ray</i> Kazuhiko Ninomiya (Osaka University)
10:40 – 11:00	0:20	<i><math>\Xi^-</math> atom X-ray Spectroscopy with Hyperball-X (J-PARC E07)</i> Manami Fujita (Tohoku University)
11:00 – 11:30	0:30	Coffee break
Morning II		Chair: G. de France (GANIL)
11:30 – 12:00	0:30	<i>Nuclear fission and structure studies using <math>^{254}\text{Es}</math></i> Katsuhisa Nishio (JAEA)
12:00 – 12:20	0:20	<i>Preliminary result of CAGRA E455 experiment</i> Yongde Fang (IMP)
12:20 – 12:40	0:20	<i>The ultrafast dE-ToF sc diamond detector</i> Olga Beliuskina (CNS, University of Tokyo)
12:40 – 14:00	1:20	Lunch
Afternoon I		Chair: R. Palit (TIFR)
14:00 – 14:25	0:25	<i>Energy-degraded beam line at RIBF, OEDO</i> Nobu Imai (CNS, University of Tokyo)
14:25 – 14:50	0:25	<i>Transfer Reactions with CAGRA at OEDO</i> Philipp Schrock (CNS, University of Tokyo)
14:50 – 15:20	0:30	<i>Mass dependence of the octupole correlation investigated with the constrained 3D Hartree-Fock plus BCS model</i> Shuichiro Ebata (Tokyo Institute of Technology)
15:20 – 15:50	0:30	Coffee break
Afternoon II		Chair: M. Niikura (Tokyo)
15:50 – 16:15	0:25	<i>Recent gamma spectroscopy studies at IMP</i> Guangshun Li (IMP)
16:15 – 16:35	0:20	<i>Measurement of gamma rays from the giant resonance of C-12 and O-16</i> Makoto Sakuda (Okayama University)
16:35 – 16:55	0:20	<i>Measurements of gamma rays from the giant resonances of <math>^{12}\text{C}</math> and comparison with the hadronic decay model calculations.</i> Reen Mandeep (Okayama University)
16:55 – 17:15	0:20	<i>Importance of the in-situ gain shift calibration for the <math>\gamma</math>-ray counter in <math>X(p,p',\gamma)</math> experiment</i> Takashi Sudo (Okayama University)
17:15 – 17:40	0:25	<i>Status of ELIGANT-GN instrument for gamma above neutron threshold experiments at ELI-NP</i> Mateusz Krzysiek (ELI-NP)
18:00 – 20:00	2:00	Reception

Morning I		Chair: P. Doornenbal (RIKEN)
9:30 – 10:00	0:30	<i>The AGATA campaign at GANIL</i> Gilles de France (GANIL)
10:00 – 10:20	0:20	<i>Summary of the CAGRA+GR campaign experiments</i> Nobuyuki Kobayashi (RCNP)
10:20 – 10:50	0:30	<i>New particle-gamma capability at iThemba LABS</i> Luna Pellegri (iThemba Labs)
10:50 – 11:20	0:30	Coffee break
Morning II		Chair: Y. Utsuno (JAEA)
11:20 – 11:50	0:30	<i>Low-frequency quadrupole vibrations induced by pairing fluctuation around <math>^{40}\text{Mg}</math> studied by quasiparticle RPA calculation with Skyrme energy density functional</i> Masayuki Yamagami (University of Aizu)
11:50 – 12:20	0:30	<i>Overview of in-beam gamma-ray spectroscopy at the RIBF,</i> Kathrin Wimmer (University of Tokyo)
12:20 – 14:00	1:40	Lunch
Afternoon I		Chair: K. Wimmer (Tokyo)
14:00 – 14:30	0:30	<i>Highlights from the 1st GRETINA Campaign at ATLAS</i> Michael Carpenter (ANL)
14:30 – 15:00	0:30	<i>Nuclear structure studies in Italy: AGATA, Galileo and perspectives for the SPES Facility</i> Francesco Recchia (University and INFN Padova)
15:00 – 15:30	0:30	Coffee break
Afternoon II		Chair: Nori Aoi (RCNP)
15:30 – 15:50	0:20	<i>Probing the fine structure of giant resonances with Grand Raiden + LaBr<sub>3</sub> gamma-ray detectors</i> Czeszumaska Agnieszka (RCNP)
15:50 – 16:10	0:20	<i>Detector system for the measurement of gamma decay from giant resonances using LaBr<sub>3</sub> detectors and Grand Raiden</i> Shoken Nakamura (RCNP)
16:10 – 16:30	0:20	<i>Development of a new scintillation detector based spectrometer at the RIBF</i> Martha Liliana Cortes (RIKEN)
16:30 – 16:50	0:20	<i>Test experiment of a tracking detector at the NewSUBARU</i> Yasutaka Yamamoto (RCNP)
16:50 – 17:00	0:10	<i>Closing</i> Nori Aoi (RCNP)