

## Physics Session

Abstract No.	Time	Presented by	Affiliation	Title	Authors	page No.
<b>Plenary Lecture: October 13 at the University Library Hall</b>						
PO-01	16:50 - 17:25	Takeo Kawasaki	Niigata University	Reactor Neutrino Experiment	Takeo Kawasaki	91
<b>Oral presentations: October 12, at Advanced Education and Research Building G, Room G313</b>						
Chair person : Ken-ichi Yoshida (Niigata University)						
PO-02	10:00	Chien-Cheng Kuo	National Sun Yat-sen University	Tailoring the interfacial interaction of epitaxial graphene with metals	Chien-Cheng Kuo, Yao-Jui Chan, Chih-Heng Huang, Shih-Yu Wu and Der-Hsin Wei	92
PO-03	10:20	Feng-Chuan Chuang	National Sun Yat-sen University	Nontrivial topological electronic structures in single Bi(111) bilayer on substrates : A first-principles study	Feng-Chuan Chuang, Zhi-Quan Huang, Chia-Hsiu Hsu, Yu-Tzu Liu, Hua-Rong Chang, Hsin Lin and Arun Bansil	93
PO-04	10:40	Hsin Hsien Chen	National Cheng-Kung University	Studying of ZnO and Graphene surface by STM/STS	Hsin-Hsien Chen, Shu Hsuan Su and J.C.A. Huang	94
PO-05	11:00	Hiroyuki Yamaguchi	Kyushu University	Direct measurement of nuclear astrophysical reaction ${}^4\text{He} + {}^{12}\text{C} \rightarrow {}^{16}\text{O} + \gamma$ cross section near stellar energy	H. Yamaguchi, K. Sagara, K. Morita, K. Fujita, T. Teranishi, D. Kodama, N. Tao, Y. Narikiyo, K. Hamamoto and T. Ban	95
PO-06	11:20	Kosuke Morita	Kyushu University	Search for Superheavy Element in Japan	Kosuke Morita	96
PO-07	11:40	Yoshihiko Kobayashi	Niigata University	Single-neutron resonance in a superfluid nucleus	Yoshihiko Kobayashi, Masayuki Matsuo and Kazuto Nakajima	97
<b>Lunch Break 12:00-13:30</b>						
Chair person : Yosuke Yusa (Niigata University)						
PO-08	13:30	Shun Sato	Niigata University	Measurement of branching fraction for $B^0$ decay to $\eta'K^0$ at Belle experiment	Shun Sato, Yosuke Yusa	98
PO-09	13:50	Seung-il Nam	Pukyong National University	Nonperturbative QCD	Seung-il Nam	99
PO-10	14:10	Yu-Heng Wu	National Sun Yat-sen University	Polarization Switching of Vertical-Cavity Surface-Emitting Laser Induced by Current Self-Heating Effect	Y. H. Wu, Y. C. Li, W. C. Kuo and T. C. Yen	100
PO-11	14:30	Yuichi Saraya	Niigata University	Study of spatial resolution of proton computed tomography using a silicon strip detector	Yuichi Saraya, Takuji Izumikawa, Jun Goto, Takeo Kawasaki	101
<b>Coffee Break 14:50-15:20</b>						
Chair person : Kang Kim (Niigata University)						
PO-12	15:20	Chia Wei Tang	Chung Yuan Christian University	Robustness of collective behaviors for systems in small world net-works	Chia-Wei Tang	102
PO-13	15:40	Seung Ki Baek	Pukyong National University	Stochastic resonance in spin systems	Seung Ki Baek, Hye Jin Park and Beom Jun Kim	103
PO-14	16:00	K. B. H. Hamol-awon	Mindanao State University	Effects of ethanol on the physicochemical properties of oxidative-polymerized polyaniline films	K B H Hamol-awon, J G Fernando, R M Vequizo M K G Odarve, B R B Sambo, R T Candidato, Jr, F R Bagsican, M Jabian, G Paylaga, and A C Alguno	104
PO-15	16:20	Kyung-Hwan Roh	Pukyong National University	Efficiency Enhancement in Polymer Solar Cells using Cosolvent Processing Method	K. H. Roh, S. H. Park and Y. K. Jung	105
<b>Oral presentations: October 13 at Advanced Education and Research Building G, Room G313</b>						
Chair person : Yusuke Hirose (Niigata University)						
PO-16	10:00	Tzu-Neng Lin	Chung Yuan Christian University	Efficient energy transfer from InGaN quantum wells to Nanomaterials	T. N. Lin, L. T. Huang, G. W. Shu, J. L. Shen and H. C. Kuo	106
PO-17	10:20	Yen-Kuang Kuo	National Changhua University of Education	Simulation of light-emitting diodes and solar cells	Yen-Kuang Kuo and Jih-Yuan Chang	107
<b>Poster presentations: October 13 at the University Library Lounge</b>						
PP-01	11:00-12:00	Hui-Zhen Xie	Chung Yuan Christian University	Robustness of collective behaviors for systems in scale-free networks	Hui-Zhen Xie	108
PP-02	11:00-12:00	Wei-Shun Huang	National Cheng-Kung University	Magnetic photocurrent induced by both the charge transfer complex states and the bipolaron states in pentacene:fullerene heterojunction devices	Wei-Shun Huang, Zhe-Rui Xu, Bin Hu, Tzung-Fang Guo, J. C. A. Huang and Ten-Chin Wen	109
PP-03	11:00-12:00	Zi-Yi Lin	National Changhua University of Education	The magnetoresistance measurement on spin-valve film with exchange bias	Zi-Yi Lin, Sandeep Srivastava, Jen-Hwa Hsu, Jong-Ching Wu	110
PP-04	11:00-12:00	Tomoya Sato	Niigata University	Study for a material density resolution at proton CT	Tomoya Sato, Takeo Kawasaki, Yuichi Saraya	111
PP-05	11:00-12:00	Shan-Rong Li	National Changhua University of Education	Analysis of optical properties for deep ultraviolet AlGaIn quantum wells light-emitting diodes containing GaN quantum dots	Shan-Rong Li, Yi-An Chang, Fang-Ming Chen, Jih-Yuan Chang and Yen-Kuang Kuo	112