

2nd International Workshop & 12th RIBF Discussion

on Neutron-Proton Correlations

July 6 – 9, 2015

The University of Hong Kong

Lecture Room T5, 1/F, Meng Wah Complex

Program

July 6 (Mon)

Chair: J. Lee		
09:00 - 09:30	Welcome & Opening	K.S. Cheng, H. Sakurai,
09:30 - 10:00	Experimental Aspects of Neutron-Proton Pairing	A. Macchiavelli
10:00 - 10:30	Some earlier studies on reactions involving two nucleons	T. Motobayashi
10:30 - 11:00	Coffee Break	

Chair: H. Sakurai		
11:00 - 11:30	proton-neutron correlations in the shell model	T. Otsuka
11:30 - 12:00	Anomalous Rod Shape Nuclei in Covariant Density Functional Theory	J. Meng
12:00 - 12:30	Aligned neutron-proton pairs in N=Z nuclei	P. Van Isacker
12:30 - 13:30	Lunch	

Chair: A. Macchiavelli		
13:30 - 14:00	Pairing studies by two-nucleon transfer	D. Beaumel
14:00 - 14:30	Pairing and quartetting in medium mass nuclei	M. Assie
14:30 - 15:00	On pn-pair transfer/pick-up reactions	S. Ota
15:00 - 15:30	Coffee Break	

Chair: T. Otsuka		
15:30 - 16:00	Systematics study of np-pairing of N=Z sd-shell nuclei using transfer reactions	J. Lee
16:00 - 16:30	np-transfer in 2nd order DWBA and other applications of two-nucleon transfer	J. Lay
16:30 - 17:00	Neutron-proton pairing fluctuations and double-beta decay	N. Hinohara
17:00 - 17:30	Proton-neutron pairing correlations in double-beta decay	J. Terasaki

July 7 (Tue)

Chair: F. Cappuzzello		
09:00 - 09:30	Study of Neutron-Proton Correlations & 3N-Force in N=Z nuclei ^{12}C	H. Liu
09:30 - 10:00	pn correlation in ^{10}B	Y. Kanada-En'yo
10:00 - 10:30	Deuteron-like correlation for the T = 0 channel in ^{18}F	H. Masui
10:30 - 11:00	Coffee Break	

Chair: T. Motobayashi		
11:00 - 11:30	Probing nuclear correlations via (p,pX) reactions	K. Ogata
11:30 - 12:00	Probing two-nucleon correlations via knockout-delayed particle emission	T. Uesaka
12:00 - 12:30	Investigation of alpha cluster states using alpha knockout reactions	K. Yoshida
12:30 - 13:30	Lunch	

Chair: H. Liang		
13:30 - 14:00	Study of short range correlation in nuclei	E. Piasetzky
14:00 - 14:30	Nucleon-nucleon correlation in neutron-rich nuclei	S. Shimoura
14:30 - 15:00	Dineutron correlation in two-neutron halo nuclei via breakup and knockout reactions	Y. Kikuci
15:00 - 15:30	Coffee Break	

Chair: P. Van Isacker		
15:30 - 16:00	Gogny-force shell-model calculations	F. Xu
16:00 - 16:30	Neutron-proton pair correlation from a shell-model perspective	C. Qi
16:30 - 17:00	Isospin-symmetry breaking in nuclei around the N=Z line	Y. Sun
17:00 - 17:30	Proton-neutron mixed density functional calculation with isospin breaking interaction	K. Sato

July 8 (Wed)

Chair: S. Shimoura		
09:00 - 09:30	Active pairing interactions in the formation of low- and high-energy collective Gamow-Teller states	Y. Fujita
09:30 - 10:00	Gamow-Teller excitations and n-p pairing	H. Sagawa
10:00 - 10:30	Interplay between proton-neutron pairing and deformation in N=Z medium mass nuclei	D. Gambacurta

10:30 - 11:00 [Coffee Break \(& Workshop Photo\)](#)

Chair: Y. Sun		
11:00 - 11:30	Study on effect of tensor interactions in light nuclei via (p,d) and (p,dN) reactions	H.J. Ong
11:30 - 12:00	Neutron-proton correlations in ^4He	W. Horiuchi
12:00 - 12:30	Importance of tensor force in light nuclei studied with tensor optimized shell model	T. Myo

12:30 - 13:30 [Lunch](#)

Chair: T. Uesaka		
13:30 - 15:00	np spin-correlation in the ground state studied by spin-M1 transitions	A. Tamii

15:00 - 15:30 [Coffee Break](#)

Chair: D. Nishimura		
15:30 - 17:00	Proton-neutron pairing vibrations	K. Yoshida
17:00 - 17:40	Discussion and Brainstorming	T. Nakatsukasa A. Macchiavelli

18:00 - [Workshop Banquet & Get-Together Party](#)

July 9 (Thur)

Chair: D. Beaumel		
09:00 - 09:30	Extracting spectroscopic information from ($^{18}\text{O}, ^{16}\text{O}$) two-neutron transfer reactions	M. Cavallaro
09:30 - 10:00	Signatures of Giant Pairing Vibration in ^{14}C and ^{15}C nuclei	F. Cappuzzello
10:00 - 10:30	Study of three-body repulsive force via $^{12}\text{C}+^{12}\text{C}$ scattering at 100 MeV/u	W. Qu

10:30 - 11:00

Coffee Break

Chair: H. Sagawa		
11:00 - 11:30	Nucleon Pairs Approximation of the Shell Model	Y. Zhao (presented by Y. Cheng)
11:30 - 12:00	Dominance of pair correlation in the asymptotic tail of neutron halo	Y. Zhang
12:00 - 12:10	Closing	J. Lee, H. Liang, K. Yoshida