

76th OMEG–SSANP Workshop
"Chiral Symmetry in Quark, Hadron, and Nuclear Physics"

DATE & TIME: 22(MON) – 23(TUE) July, 2024

PLACE: Room 318, White Horse Hall, Soongsil University

22 (MON)

TIME	TITLE	SPEAKER
Registration (09:30~10:00)		
10:00~10:30 (30 min)	In-medium mass shift of $B_c^{(*)}$, $B_s^{(*)}$, and $D_s^{(*)}$ mesons	Kazuo Tsushima (UNICID)
10:30~11:00 (30 min)	Symmetry energy and neutron star properties constrained by chiral effective field theory calculation	Yeonwhan Lim (Yonsei Univ.)
Coffee Break (20 min)		
11:20~11:50 (30 min)	Fixing of effective range parameters in elastic α - ^{12}C scattering	Shung-Ichi Ando (Daegu Univ.)
11:50~12:20 (30 min)	NLEFT(Nuclear Lattice Effective Field Theory) for solving quantum many-body problem	Young-Ho Song (IBS)
Lunch Time (70 min)		
13:30~14:00 (30 min)	Glauber multiple scattering theory with Regge amplitude for vector meson photo-nuclear reaction	Byung-Geel Yu (KAU)
14:00~14:30 (30 min)	Heavy-light quarks interaction induced by QCD instantons	Nurmukhammad Rakhimov (Inha Univ., CENuM)
14:30~15:00 (30 min)	Heavy-flavored meson bound states with nuclei	Guilherme Zeminiani (UNICID)
Coffee Break (25 min)		
15:25~15:55 (30 min)	Pattern of chiral symmetry breaking and mechanical structure of the pion and kaon	Hyeon-Dong Son (Inha Univ.)
15:55~16:25 (30 min)	Role of chiral symmetry and its breaking in hadron structure	Parada Hutauruk (Pukyong Univ.)
Coffee Break (25 min)		
16:50~17:10 (20 min)	Effective theory for heavy-light quark systems from instanton vacuum	Ki-Hoon Hong (Inha Univ.)
17:10~17:30 (20 min)	Properties of neutron stars and strangeness-mixed stars from a pion mean-field approach	Namyong Ghim (Inha Univ.)
17:30~18:00 (30 min)	Nuclear mass prediction and new magic numbers using machine learning	Jubin Park (Soongsil Univ.)
Dinner Time		

23 (Tue)

TIME	TITLE	SPEAKER
Registration (09:00~09:30)		
09:30~10:00 (30 min)	Electromagnetic and axial structure of baryons in nuclear medium and nucleus	Gilberto Ramalho (Soongsil Univ.)
10:00~10:30 (30 min)	Isospin symmetry breaking and weak coupling constants in nuclear matter	Miyatsu Tsuyoshi (Soongsil Univ.)
Coffee Break (20 min)		
10:50~11:10 (20 min)	$D_{s_0}^*(2317)$ and $B_{s_0}^*$ as molecular states	Heejin Kim (Inha Univ.)
11:10~11:30 (20 min)	Non-diagonal deeply virtual Compton scattering off pion with transition generalized parton distribution	Sangyeong Son (KNU)
Coffee Break (20 min)		
11:50~12:20 (30 min)	QMC in DJBUU	Youngman Kim (IBS)
12:20~12:50 (30 min)	Final Attempt to search for the $S=+1$ pentaquark at J-PARC	Shinhyung Kim (KNU)
Lunch Time		