QCS2019 Scientific Program (2019.9.27 version)

September 26, 2019 (Thu)

8:30-8:50	Registration	
8:50-9:00	**Opening**	**Chang-Hwan Lee**
Session1-1	**Chair**	**Chang Ho Hyun**
9:00-9:25	Xiangdong Li	Formation of Double Compact Stars
9:25-9:50	Toru Harada	Hypernuclear Physics and Neutron Stars
9:50-10:10	Enping Zhou	Differential rotating quark stars with realistic angular velocity profile
10:10-10:30	Shigehiro Yasui	Aspects of neutron P-wave superfluidity in neutron stars - surface topology, domain walls, and universality
10:30-11:00	**Break**	
Session1-2	**Chair**	**Masayasu Harada**
11:00-11:25	Naoki Yamamoto	Chiral Soliton Lattice in QCD
11:25:11:50	Su Houng Lee	Hadrons at finite density
11:50-12:10	Aaron Park	Intrinsic three-body nuclear forces in a compact tribaryon configuration
12:10-12:30	Cheng-Jun Xia	The quark-hadron interface effects in the multi-messenger era
12:30-14:00	**Lunch**	Cafeteria in Hanwha Resort
Session1-3	**Chair**	**Hong Shen**
14:00-14:25	Xiaoyu Lai	Mergering strangeon stars and kilonova
14:25-14:50	Hsiang-Kuang Chang	The Compton Spectrometer and Imager (COSI) and Multi-Messenger Astrophysics
14:50-15:10	Young-Min Kim	Bayesian analysis with KIDS energy density functional
15:10-15:30	Lap-Ming Lin	Neutron star dynamics: From oscillations to tidal deformation
15:30-16:00	**Break**	
Session1-4	**Chair**	**Su Houng Lee**
16:00-16:25	Yong-Liang Ma	Toward a Cheshire Cat for Hadron-Quark Continuity in Compact Stars
16:25-16:50	Pengfei Zhuang	Chiral phase transition in out-of-equilibrium systems
16:50-17:15	Yefei Yuan	Collision of ultra-relativistic proton with strong magnetic field: Production of ultra-high energy photons and neutrinos
17:15-17:40	Hiroaki Abuki	Inhomogeneous chiral condensates in quark matter
17:40-18:30	**Poster**	**Short oral presentation (P1-P9) + poster session**
19:00-21:00	**Reception**	Restaurant near Hanwha Resort

September 27, 2019 (Fri)

Session2-1	**Chair**	**Myung-Ki Cheoun**
8:40-9:05	Hong Shen	Unified EOS and pasta phases for neutron stars
9:05-9:30	Toshiki Maruyama	Inhomogeneous Nuclear Matter in Strong Magnetic Field
9:30-9:55	Xia Zhou	Spin and thermal evolution of old but warm pulsars
9:55-10:15	Parada T. P. Hutauruk	Medium modifications of hadron structure and its implication on the properties of the slowly rotating neutron star
10:15-10:35	Xin-Yue Shi	PeV neutrinos from black hole mergers via the pB process
10:35-11:00	**Break**	
Session2-2	**Chair**	**Toshiki Maruyama**
11:00-11:25	Youngman Kim	QCD vacuum and denst matter
11:25-11:50	Renxin Xu	Flavour symmetry: from nucleon to strangeon
11:50-12:15	Takumi Muto	Effects of Three-Baryon Repulsive Forces on Kaon Condensates in Hyperon-Mixed Matter
12:15-12:40	Tomoyuki Maruyama	Gamma-vortex Generation through Synchrotorn Radiation in Strong Magnetic fields in Relativistic Quantum Approach
12:40-14:00	**Lunch**	Cafeteria in Hanwha Resort
Session2-3	**Chair**	**Sungtae Cho**
14:00-14:25	Yuichiro Sekiguchi	Constraining EOS of NS : achievements in GW170817 and future prospects
14:25-14:50	Tsuneo Noda	Thermal Evolution of Quark-Hadron Hybrid Stars with Nucleon Superfluidity and Quark Superconductivity
14:50-15:10	Jiguang Lu	Implications for Compact Star EoS from Radio Pulsar Observation
15:10-15:35	Toshitaka Tatsumi	Transport properties of magnetized neutron stars
15:35-16:00	**Break**	
Session2-4	**Chair**	**Pengfei Zhuang**
16:00-16:25	Defu Hou	Phase Structure of Dense QCD Matter
16:25-16:50	Masayasu Harada	Dense nuclear matter based on a chiral model with parity doublet structure
16:50-17:15	Zhigang Xiao	Isospin Dynamic in Heavy Ion Reactions and Constraining of Nuclear Summetry Energy
17:15-17:35	Jinniu Hu	The symmetry effects on the properties of neutron star
17:35-17:55	Akira Dohi	Influence of the neutron star cooling on X-ray burst
17:55-18:30	**Poster**	**Short oral presentation (P10, P11) + Poster session**
19:00-21:00	**Banquet**	Buffet Restaurant at Hanwha Resort

September 28, 2019 (Sat)

Session3-1	**Chair**	**Naoki Yamamoto**
8:40-9:05	Myung-Ki Cheoun	Decription of Neutron Star based on QMC model with Strong Magnetic Field in the f(R) Relativity
9:05-9:25	Kouji Kashiwa	Toward solving the sign problem in dense QCD matter via the path optimization method
9:25-9:45	Kei Suzuki	A new phase and exciton modes in QCD Kondo effect
9:45-10:10	Seung-il Nam	EoS for quark matter from instanton QCD vacuum
10:10-10:30	Fan Ji	Effects of nuclear symmetry energy and equation of state on neutron star properties
10:30-11:00	**Break**	
Session3-2	**Chair**	**Renxin Xu**
11:00-11:25	Wei Zuo	Properties of Asymmetric Nuclear Matter within the EBHF approach
11:25-11:50	Yun-Wei Yu	Transient phenomena powered by a newborn neutron star
11:50-12:15	Kazuyuki Sekizawa	Time-Dependent Density Functional Theory for Superfluid Dynamics in the Neutron Star Crust
12:15-12:35	Nobutoshi Yasutake	Hydrostatic equilibria of rotating stars in Lagrangian coordinate
12:35-12:40	Renxin Xu	QCS2021
12:40-12:45	**Closing**	**Seung-Woo Hong**
12:45-14:00	**Lunch**	Cafeteria in Hanwha Resort

Poster session with short oral presentation

Date: Sep. 26 (Thu), 2019, 17:40-18:30 pm (5 min talk for each speaker)

P1	Min Ju	Hadron-quark phase transition in the quark-meson coupling model
P2	Zhi Fu Gao	The surface thermal emission and crust magnetic field decay in magnetars
P3	Bharat Kumar	Tidal deformability for neutron and hyperon stars
P4	Chan Park	PyTOV - a new code to solve TOV equation
P5	Tsukiho Fujie	Are giant nuclei in supernova matter stable with respect to deconfinement ?
P6	Myungkuk Kim	Estimation of mass and radius from LMXB
P7	Ming Lyu	Observational features of the millihertz QPOs and a possible use for constraining local gravity around neutron-star surface in the future
P8	Shigehiro Yasui	Aspects of neutron P-wave superfluidity in neutron stars -surface topology, domain walls, and universality
P9	Shigehiro Yasui	Pairing fluctuations and collective excitations in ^1S_0 superfluid in neutron stars

Date: Sep. 27 (Fri), 2019, 17:55-18:30 pm (5 min talk for each speaker)

P10	Shuang Du	To constrain neutron star's EOS by GRB X-ray plateau
P11	Zhi-Qiang Miu	A bag model of infinite strangeon matter