

<Recent progress of nuclear reactions and nuclear structure in theoretical side>

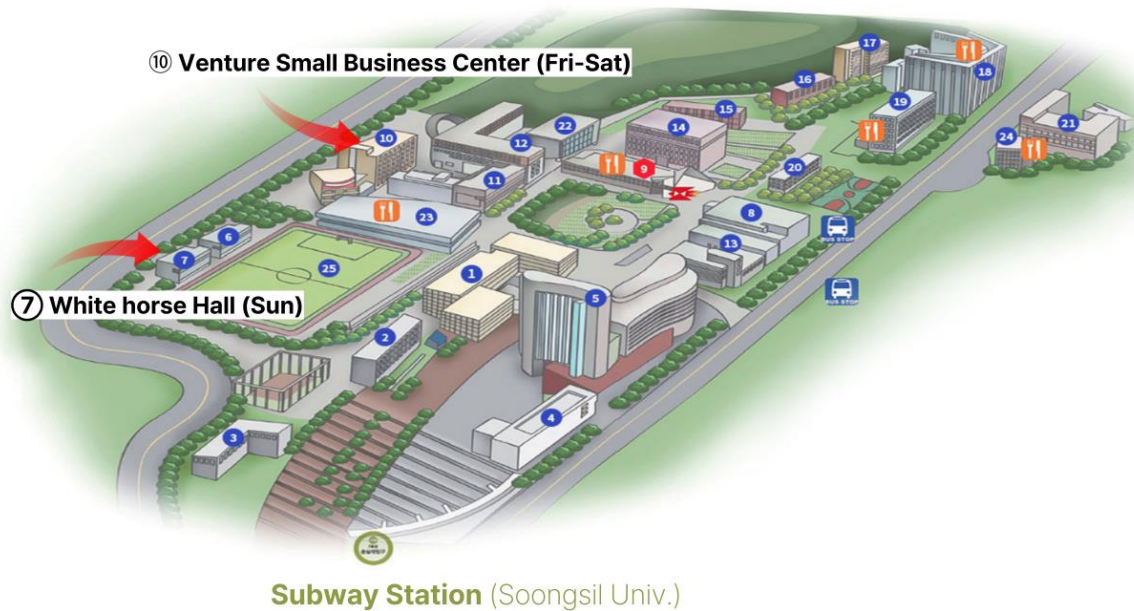
(84th OMEG-SSANP workshop)

Sponsors: Project "Quantum Matter Science in the Universe Opened Up by Precise Numerical Calculations?" and Origin of Matter and Evolution of Galaxies (OMEG) Institute

Date: April 18 (Fri) – 20 (Sun) & Place: Soongsil University, Seoul, Korea

Room: Venture Small Business Center 309(Fri, Sat) & White horse Hall 403 (Sun)

Campus Map



Preliminary Program

April 18 (Fri)

13:30 – 14:00 Registration

1st session: Chair (Myung-Ki Cheoun)

14:00 - 15:00 Emiko Hiyama (Tohoku Univ./RIKEN): **Gaussian Expansion method and its application to 4He atomic physics**

15:00 - 16:00 Kenich Yoshida (RCNP, Osaka Univ.): **Nuclear spin-isospin responses: Many-body correlations and beta decay**

16:00 – 16:30 Break

2nd session: Chair (Changho Hyun)

16:30 – 17:30 Kouichi Hagino (Kyoto Univ.): **Taking a snapshot of a nucleus**

17:30 – 18:00 Kyoungsu Heo (OEMG/SSU): **Spin-spin interaction in nucleon - nucleus scattering**

18:00 – 18:30 Eunja Ha (Hanyang Univ.): **Pairing gap and Gamow-Teller strength in magic nuclei**

18:30 – 20:30 Dinner together

April 19 (Sat)

3rd session: Chair (Kyungsik Kim)

10:00 – 10:40 Tsuyoshi Miyatsu (OEMG/SSU): **A dual description of quarks and hadrons for dense QCD matter**

10:40 – 11:10 Toi Tachibana (Kyoto Univ.): **EOS for spin polarized matter**

11:10 – 12:10 N. Hinohara (Tsukuba Univ.): **Pairing correlation in nuclear density functional theory**

12:10 – 14:00 Lunch

4th session: Chair (K. Hagino)

14:00 – 15:00 Changho Hyun (Daegu Univ.): **Playing with KIDS**

15:00 – 15:30 Jubin Park (OEMG/SSU): **Systematic Optimization of KIDS EDFs for Accurate Finite Nuclei Calculations**

15:30 – 16:00 Gilberto Ramalho (OEMG/SSU): **Electroweak structure of baryons in dense nuclear matter**

5th session: Chair (E. Hiyama)

16:00 – 16:30 Break

16:30 – 17:30 Tomoya Naito (RIKEN): **What Is the Possible Heaviest $N = Z$ Nuclei?**

17:30 – 18:30 Masaaki Kimura (RIKEN): **Molecular dynamics approach to the low-energy nuclear reactions**

18:30 – 20:30 Dinner together

April 20 (Sun)

6th session: Chair (M. Kimura)

10:00 – 11:00 Futoshi Minato (Kyushu Univ.): **Particle emissions following neutrino and muon reactions on nuclei**

11:00 – 12:00 Yusuke Tanimura (OEMG/SSU): **Odd-even staggering of charge radii of Ca isotopes**

12:00 – 13:00 Takayuki Miyagi (Tsukuba Univ.): **Recent progress in nuclear ab initio calculation**

Speakers: Emiko Hiyama, Kouichi Hagino, Toi Tachibana, Kenich Yoshida, N. Hinohara, Masaaki Kimura, Takayuki Miyagi, Tomoya Naito, Futoshi Minato

Yusuke Tanimura, Tsuyoshi Miyatsu, Gilberto Ramalho, M. K. Cheoun, Changho Hyun, Kyoungsu Heo, Eunja Ha, Jubin Park