

# Recent Progresses in Nuclear Structure Physics 2016 (NSP2016)

Room K102, Yukawa Institute for Theoretical Physics, Kyoto University

5-23 December, 2016

**5 Dec.**

11:00

[Naoyuki Itagaki \(YITP\)](#)

[Cluster, shell, and DFT](#)

**6 Dec.**

14:00

Related activity ``YITP seminar''

Few-Body Effects and Neutron Resonances in Neutron Star Envelopes

Nurgali Takibayev (Al-Farabi Kazakh National Univ.)

At room K202

15:30

[Shihang Shen \(Peking\)](#)

[Relativistic Brueckner-Hartree-Fock Theory for Finite Nuclei](#)

**7 Dec.**

11:00

[Koichi Sato \(Osaka city\)](#)

[Gauge symmetry in the large-amplitude collective motion of superfluid nuclei](#)

14:00

[Shigeo Ohkubo \(Kochi\)](#)

[Nambu Goldstone and Higgs modes in Bose-Einstein condensation of alpha particles](#)

**8 Dec**

11:00

Coffee / Discussion

14:00

[Zhongming Niu \(RIKEN\)](#)

[High-precision nuclear physics inputs and their influences on the r-process](#)

**9 Dec**

14:00

[Zheng-xue Ren \(Peking\)](#)

[Covariant density functional theory in 3D lattice based on inverse Hamiltonian method and spectral method](#)

**19 Dec.**

11:00

[Li-Sheng Geng \(Beihang\)](#)

[Towards a covariant baryon-baryon interaction in chiral perturbation theory](#)

14:00

[Takashi Nakatsukasa \(Tsukuba\)](#)

[Microscopic determination of reaction path and inertial mass](#)

15:30

Haozhao Liang (RIKEN)

From Functional Renormalization Group to Density Functional Theory --- a case study of 0D anharmonic oscillator

**20 Dec.**

11:00

[Shigeyosi Aoyama \(Niigata\)](#)

[Topics in the four-nucleons unbound states](#)

14:00

[Ligang Cao \(North China Electric Power\)](#)

[Beyond mean field theory study on the properties of single-particle states](#)

16:00

[Min Shi \(RIKEN\)](#)

[Probing Resonances of the Dirac Equation with Complex Momentum Representation](#)

**21 Dec.**

11:00

[Hiroyuki Sagawa \(Aizu\)](#)

[Three-body model for nuclei near and beyond drip lines](#)

14:00

[Kouichi Hagino \(Tohoku\)](#)

[Application of beyond-mean-field approach to hypernuclei and heavy-ion fusion reactions](#)

**22 Dec.**

11:00

[Shisheng Zhang \(Beihang\)](#)

[Microscopic self-consistent study on carbon and neon halos](#)

14:00

[Kennichi Yoshida \(Niigata\)](#)

[Roles of neutron excess and deformation on charge-exchange collective modes of excitation](#)

16:00

[Yoshitaka Fujita \(RCNP\)](#)

[Low-energy Super Gamow-Teller states](#)

**23 Dec.**

11:00

[Nobuo Hinohara \(Tsukuba\)](#)

[Recent theoretical developments of finite-amplitude method for QRPA](#)

14:00

[Jie Meng \(Peking\)](#)

[Chiral symmetry in atomic nucleus: 2016](#)

15:30

[Yoritaka Iwata \(Tokyo Tech\)](#)

[Cranked Hartree-Fock calculation for linear chain of  \$^{24}\text{Mg}\$](#)