

## The First Asian Nuclear Physics Association (ANPhA) / Association of Asia Pacific Physical Societies - Division of Nuclear Physics (AAPPS-DNP) Awards for Young Scientists

The Association of Asia Pacific Physical Societies - Division of Nuclear Physics (AAPPS-DNP) decided to introduce the Asian Nuclear Physics Association (ANPhA)/AAPPS-DNP Awards for Young Scientists with financial support from AAPPS. The first award was given at the 16th International Summer School (CNSSS17) held at the Center for Nuclear Study (CNS), the University of Tokyo, Wako Campus, Japan from August 23 to August 29, 2017 (head teacher: S. Shimoura; CNS director and chair: N. Imai). The school was selected as one of the ANPhA/AAPPS-DNP supported meetings in 2017. It should be noted that ANPhA (the Asian Nuclear Physics Association) has also been operating as the Division of Nuclear Physics (DNP) of AAPPS since 2016.

The school aims at providing fundamental knowledge and perspectives of nuclear physics for graduate students and postdoctoral researchers, and consists of lectures by leading scientists in the fields of both experimental and theoretical nuclear physics. Each lecture started with an introduction from a core perspective and ended with up-to-date topics in the relevant field.

The speakers for the lectures were as follows:

Umesh Garg (Univ. of Notre Dame, USA, high spin physics),  
Munetake Ichimura (RIKEN, nuclear reaction theory),  
Robert Roth (TU Darmstadt, nuclear structure theory),  
Tomotsugu Wakasa (Kyushu Univ., gi-



**Fig. 1:** The winner of ANPhA/AAPPS-DNP Award for Young Scientists at CNSSS17, Mr. Yasuhiro Ueno, the University of Tokyo.

ant resonances and related topics),  
Bhanu Pratap Das (Tokyo Tech, relativistic effects in super heavy elements),  
Naofumi Tsunoda (CNS, nuclear structure theory), and  
Aiko Takamine (RIKEN, RI Beam Factory overview).

From the approximately 100 participants from seven countries (Japan, China, Korea, India, Vietnam, Germany and the United States), there was a significant presence of over 60 students and post-docs. Young scientist sessions, including a poster session, were held, and 37 papers were presented by graduate students and postdoctoral researchers. Five winners of the newly started CNSSS Young Scientist Award were selected from the presentations in these sessions.

Toshitaka NIWASE, Kyushu University, Japan, for “High-precision mass measurements of short-lived nuclei with MRTOF+GARIS-II.”

Yasuhiro UENO, the University of Tokyo, Japan, for “Precision test of bound-state QED via the spectroscopy of muonium hyperfine structure.”



**Fig. 2:** Five CNS Summer School (CNSSS) Young Scientist Award winners with Prof. Shomoura, head teacher of CNSSS (left) and Dr. Motobayashi, vice chair of ANPhA/AAPPS-DNP.

Takayuki MIYAGI, CNS, the University of Tokyo, Japan, for “Unitary-model-operator-approach calculations with the chiral NN+3N forces.”

Xiaoli SUN, Institute of High Energy Physics, Chinese Academy of Sciences, China, for “Fast generation method of PSF-based system matrix for PET reconstruction.”

Wilmar RODRIGUES, Universidad Nacional de Colombia, Colombia, for “The use of Hk-EOS technique to study the nuclear continuum.”

Furthermore, the best of these awardees was nominated to receive the ANPhA/AAPPS-DNP Award for Young Scientists. The award-winner was Yasuhiro UENO, the University of Tokyo, Japan, for his presentation titled “Precision test of bound-state QED via the spectroscopy of muonium hyperfine structure.” He received a certificate for the award together with 10,000 JPY as a supplementary prize from AAPPS.

It is anticipated that the ANPhA/AAPPS-DNP Award for the Young Scientists will be conferred at future ANPhA/AAPPS-DNP supported meetings.