

---

# Recent Activities of the Division of Astrophysics Cosmology and Gravitation (DACG)

MISAO SASAKI  
CHAIR OF DACG



Prof. Jun Luo introducing TianQin at CosPA2018, Yangzhou.

The purpose of DACG is to promote scientific activities in the areas of astrophysics, cosmology and gravitation in the Asia Pacific region. In particular, the CosPA meetings, a series of International Symposia on Cosmology and Particle Astrophysics, organized by the Asia-Pacific Cosmology and Particle Astrophysics (APCosPA) committee, are one of the major scientific activities we endorse. The first CosPA was held in Taiwan in 2003. The 17th symposium, CosPA2018, was hosted by the Center for Gravitation and Cosmology at Yangzhou University, held from 19 to 23, November 2018, and attended by over 180 participants from 10 countries and regions. There were three plenary sessions with 18 plenary talks. One of the sessions was dedicated to the memory of Prof. Pauchy Hwang, one of the founders of CosPA, who suddenly passed away in May 2018. In addition, parallel sessions were arranged which accommodated 45 talks. The participants discussed in depth the current situations as well as future research prospects in astrophysics, cosmology and gravitation. One of the highlights was a plenary talk by Prof. Jun Luo, the President of Sun Yat-sen University, who introduced the space-based gravitational wave detection project, “TianQin (Heavily Harp).”

As in the previous year, taking advantage of the fact that many of the executive committee (EXCO)

members of DACG were also on the APCosPA committee, we held a DACG EXCO- APCosPA joint committee meeting to discuss various issues including possible future activities at CosPA2018.

Another activity we endorse is the Asian-Pacific School/Workshop on Gravitation and Cosmology, held annually since 2007. This series of schools/workshops have been very successful in giving young students and post docs in the region occasions to reach the frontiers of the fields through lectures by world experts in those fields, and in providing chances to researchers to get to know each other and to start collaborations. The most recent one was hosted by the Yukawa Institute for Theoretical Physics (YITP), Kyoto University, and held from 11 to 15 February 2019. There were 149 participants (including 17 females) from 19 countries and regions, and 49 students from overseas. Five lecturers were invited from all over the world, giving courses on various topics, ranging from quantum gravity to numerical relativity and from inflation to dark energy.

Finally, we are pleased to announce that the DACG website has been opened at last, thanks to a dedicated effort by Prof. Jun'ichi Yokoyama, Secretary of DACG:

[http://www.resceu.s.u-tokyo.ac.jp/AAPPS\\_DACG/](http://www.resceu.s.u-tokyo.ac.jp/AAPPS_DACG/)



Group photo at AP School/Workshop on Gravitation and Cosmology, Kyoto.