

# Welcome to the HB2018

Welcome to the 61st ICFA Advanced Beam Dynamics Workshop on High-Intensity and High-Brightness Hadron Beams.

It is a great pleasure to have the HB2018 workshop first time in Korea. It is a very nice time to host the HB2018 workshop at the Institute for Basic Science, as the construction of the RAON heavy ion accelerator facility is currently underway.

The construction of the Spallation Neutron Source that started in the year of 1998 presented urgent needs to further the understanding of space-charge mechanisms and the beam loss. And the HB workshop series was conceived in the ICFA (International Committee for Future Accelerators) ABDW (Advanced Beam Dynamics Workshops). The 1st HB workshop was held in the year of 2002 at the Fermilab in the United States. And since then the HB workshop has become the main international event for the high-intensity hadron beam accelerator community.

At the time of the 1st HB workshop, the highest power accelerator had about 0.1 MW beam power. Since then, brilliant progresses have been made. Now the Spallation Neutron Source reached its design power of 1.4 MW and is striving for power-upgrade. The J-PARC reached 0.5 MW and is ramping up the beam power. The beam power of the European Spallation Source is 5 MW which is under construction and the beam power of the IFMIF is 10 MW.

The HB starts with the Monday morning plenary session, followed by two parallel sessions. Also there is one plenary session in Wednesday morning and the poster session in Wednesday afternoon. The HB consists of five working groups: Beam Dynamics in Rings (WG-A), Beam Dynamics in Linacs (WG-B), Accelerator Systems (WG-C), Commissioning and Operations (WG-D) and Beam Instruments and Interactions (WG-E).

The program of the HB is set by the International Organizing Committee (IOC), which selects the plenary speaker and working group conveners. The invited oral programs are formulated by each working groups and approved by the IOC. These committees have done an excellent work in setting up the scientific program.

Daejeon is known as the science city of Korea and is a home to majority of the national laboratories and several prestigious universities. Daejeon has a population of 1.5-million people and has a rich culture. We hope that you all enjoy the HB2018 workshop and your stay in Daejeon.

Dong-O Jeon  
HB2018 Chairman