

The 27th KEKB Accelerator Review Committee
March 25, 2024

Welcome

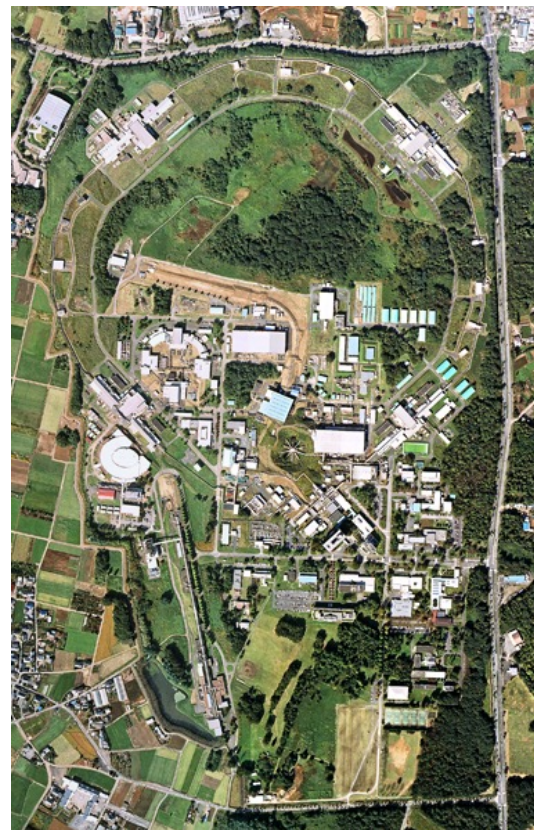
Tadashi Koseki

Accelerator Laboratory, KEK

High Energy Accelerator Research Organization, KEK



KEK Tsukuba campus



SuperKEKB, PF, PF-AR, ATF/STF
for ILC R&D, SPF, cERL, etc.

KEK Tokai campus



J-PARC, iBNCT

High Energy Accelerator Research Organization, KEK

Research Institutes:

1. Institute of Particle and Nuclear Study

Research on particle physics, nuclear physics and cosmology from both experimental and theoretical perspectives.

2. Institute of Materials Structure Science

Research on materials and life science by synchrotron radiation, neutron, muon and slow positron beams.

3. Accelerator Laboratory

Construction and operation of all accelerators at KEK, development the performance of the beams, R&D for future accelerators and related technologies.

4. Applied Research Laboratory

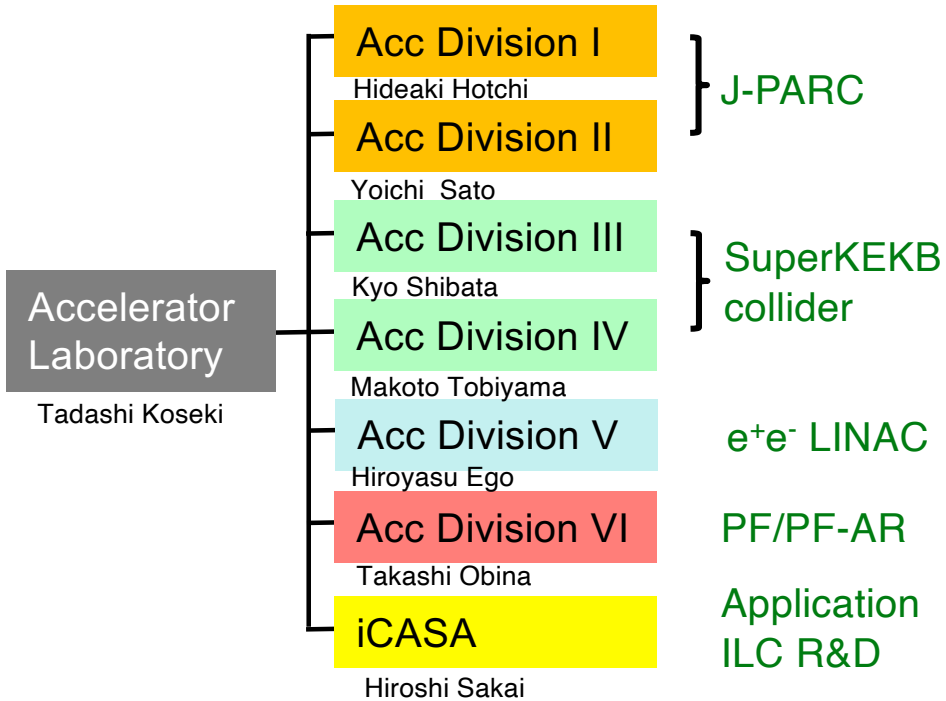
Consisting of four centers; radiation science, computing research, cryogenic science and mechanical engineering.



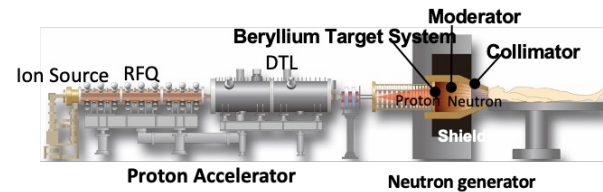
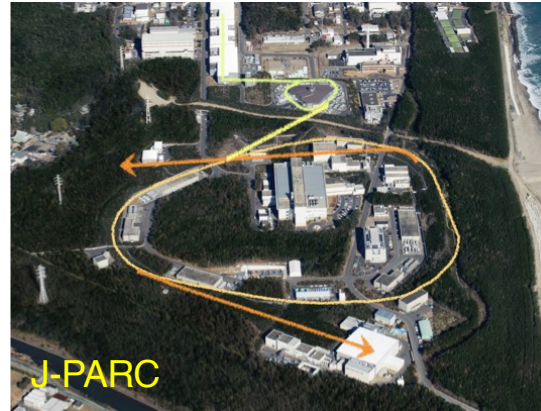
Shoji Asai,
New DG from April 2024

Accelerator Laboratory

From April 2024



iCASA : Innovation Center for Applied Superconducting Accelerator

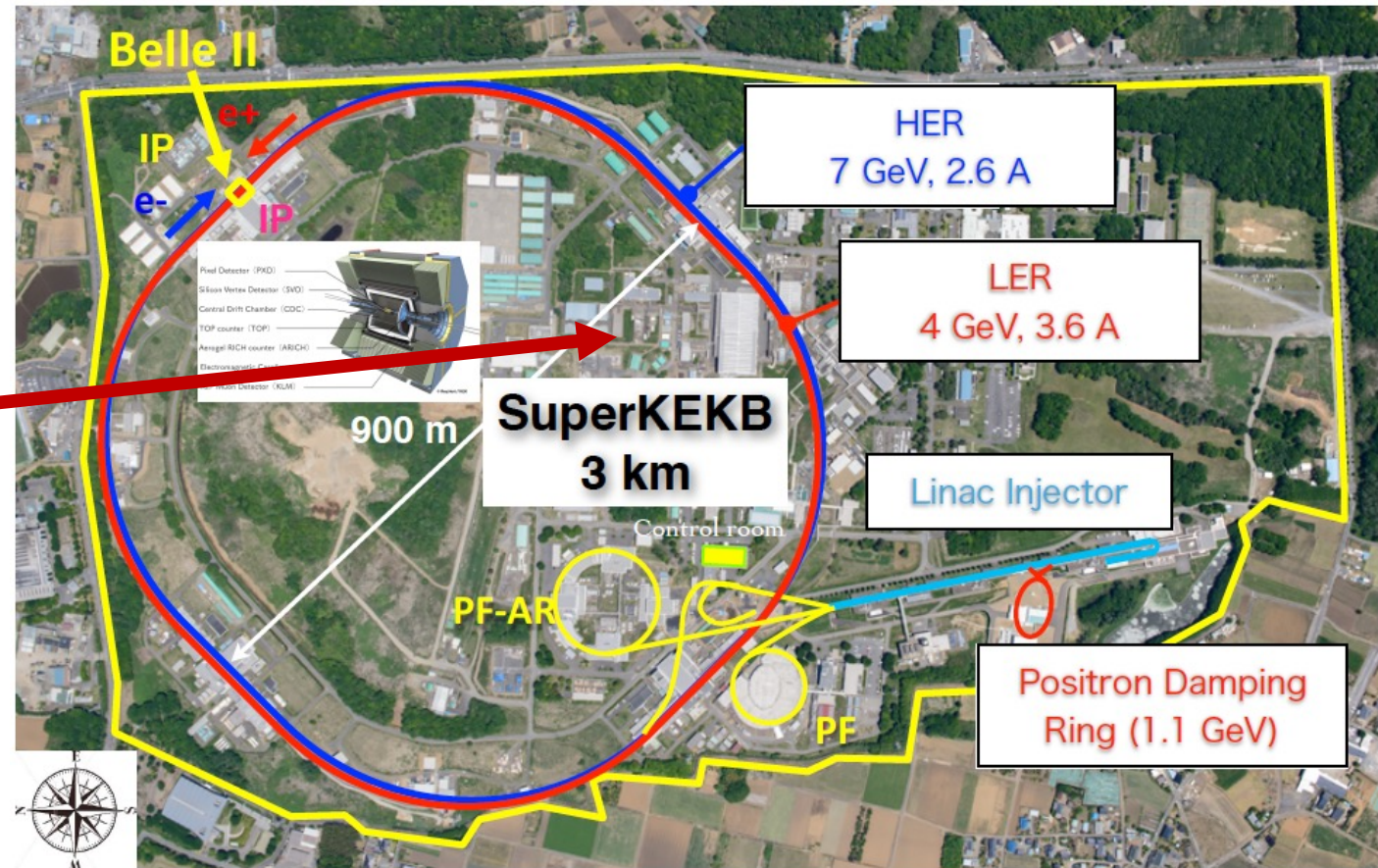
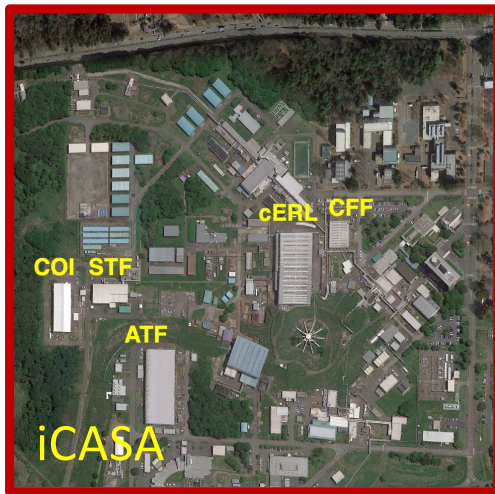


iBNCT



ILC R&D

Electron/Positron Accelerator related facilities on Tsukuba campus



The 27th meeting of the KEKB Accelerator Review Committee

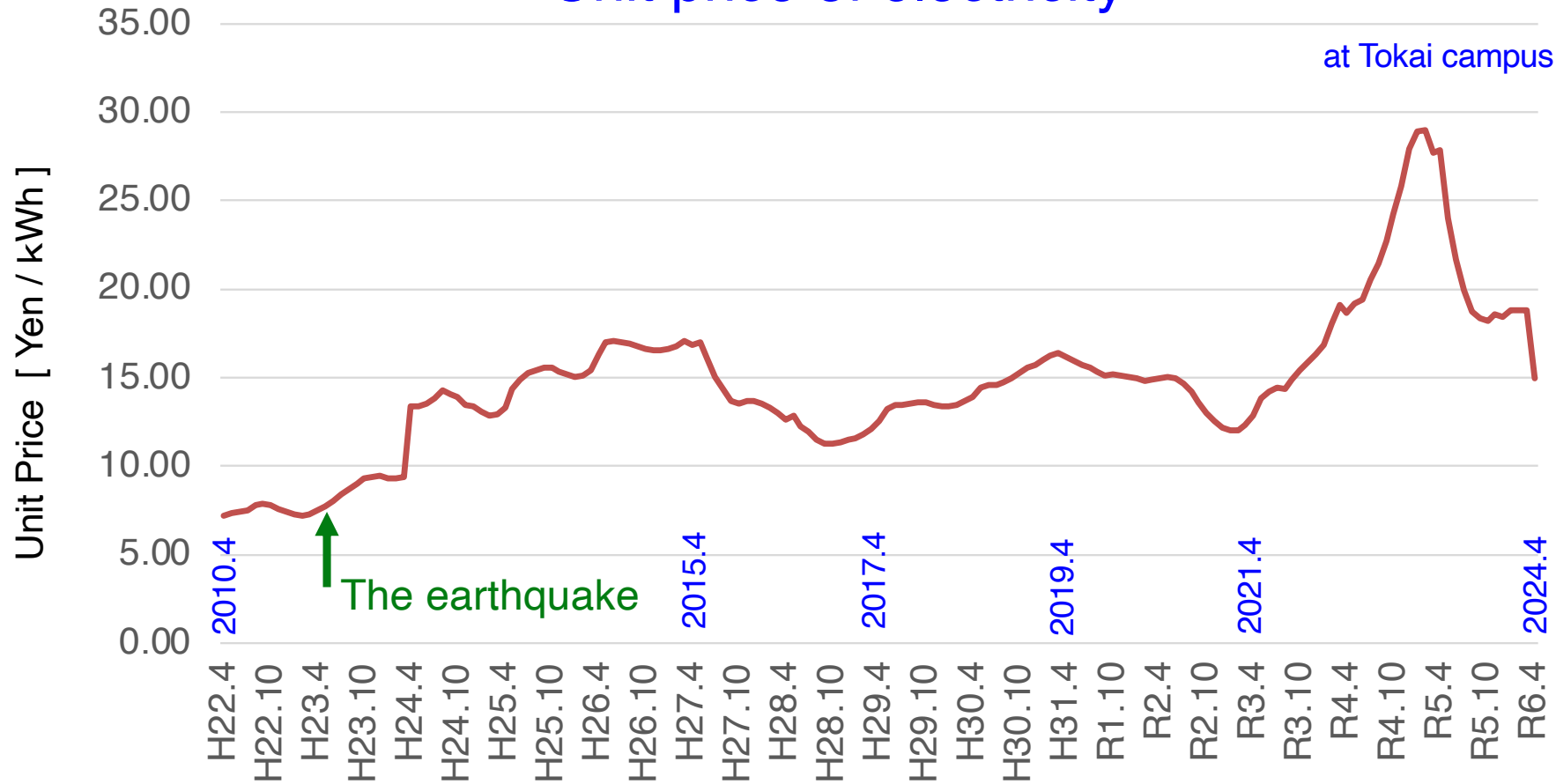
Welcome and many thanks for your participation

Frank Zimmermann, Chair	CERN	
Ralph Assmann	GSI	
Vincent Baglin	CERN	
Paolo Craievich	PSI	
John Fox	Stanford Univ.	
Andrew Hutton	JLAB	Remote
Catia Milardi	INFN	
Katsunobu Oide	UNIGE/CERN and KEK(ret.)	Remote
Evgeny Perevedentsev	BINP	Remote
Qing Qin	ESRF	
Robert Rimmer	JLAB	
John Seeman	SLAC	
Michael Sullivan	SLAC	
Thomas Taylor	CERN(ret.)	
Rogelio Tomas	CERN	
Tadashi Koseki	KEK, Director of ACCL, Ex Officio member	
Makoto Tobiya	KEK, Head of Acc. Division III, Ex Officio member	
Mika Masuzawa	KEK, Head of Acc. Division IV, Ex Officio member	
Hiroyasu Ego	KEK, Head of Acc. Division V, Ex Officio member	

We would like to request the Committee to review and advise on beam operation and overall performance of the SuperKEKB accelerator.

Unit price of electricity

at Tokai campus



- MEXT has provided KEK with an additional supplementary budget to cope with the rising cost of electricity in JFY2023.
- We should continue all efforts to reduce power consumption.

Responses to 26th ARC recommendations

R1.1 The ARC committee recommends actively recruiting new young staff members to help with the wide-ranging accelerator work of SuperKEKB and to prepare for the next decades of operation.

In JFY2023, four academic staff and three technical staff have been newly hired, and joined the SuperKEKB accelerator group. We will continue to recruit new staff through job openings widely announced to the domestic (for technical staff) and international (for academic staff) communities.

R1.2 Find a mechanism to engage additional PhD students (perhaps also already master students and even undergraduates), from Japanese universities or from abroad in the exciting and real-time accelerator environment of SuperKEKB, in both experimental and theoretical accelerator-physics studies.

ACCL (not only SuperKEKB) has ~15 graduate students working on research for their doctoral or master's theses under the guidance of faculty members in ACCL. The students are affiliated with SOKENDAI (The Graduate University for Advanced Studies), the University of Tokyo or other universities in Japan. Some of the graduates are employed as post-doctoral fellows at ACCL. As of April 2024, there will be 13 postdoctoral fellows/term-limited assistant professors in ACCL. Five of them have completed their doctor degree researches under the supervision of ACCL staff. We will continue our efforts to attract more graduate students to the SuperKEKB accelerator group.