

REPORT FROM WORKING GROUP ON “CRYOGENICS , CRYOMODULE & SUPERCONDUCTING TECHNOLOGY “ FOR ACCELERATOR PROGRAMME IN ASIA



Prof. Ge Rui , IHEP. China (Chair , LOC)
&
Prof. T S Datta, Former IIT. Kharagpur.
India (Chair, Working Group ACFA)



**Sorry, Not able to Join you Physically
in this meeting**

A Proposal by Dr T S Datta to have Asian School on Superconductivity & Cryogenics for Accelerator with Hands on Training (Similar of Asian Accelerator School in 1999)

Was Approved by ACFA : At Kyoto Meeting (2016) (Chair : Prof Yifang Wang)

2ND ASSCA School was organized at KEK, Japan During Dec 10- 17, 2017 (Prof. Nakai san)

3rd School at IHEP, Beijing in Dec. 2018 (Prof Gao Jie)

4th School was at Korea University (Sejong) in February 2023 (Prof. Eun - San Kim) : Delayed because of COVID

5th School was again at KEK. Japan in February 2024

6th ASSCA was at HEPS Campus of IHEP / CHINA during March 2025 (Chair : Prof. Ge Rui

Sixth Asian School on Superconductivity and Cryogenics for Accelerators

March 23-30, 2025, IHEP Huairou Campus, Beijing, China

<https://indico.ihep.ac.cn/e/ASSCA2025>

International Advisory Committee

GE Rui, IHEP, CAS, China

DATTA Tripti Sekahr, IIT, India

KIM Eun-san, Korea Univ., Korea

NAKAI Hirotaka, KEK, Japan

THARAWADEE Nattawut, Silpakorn Univ., Thailand

Local Organizing Committee

GE Rui (IHEP), Chair

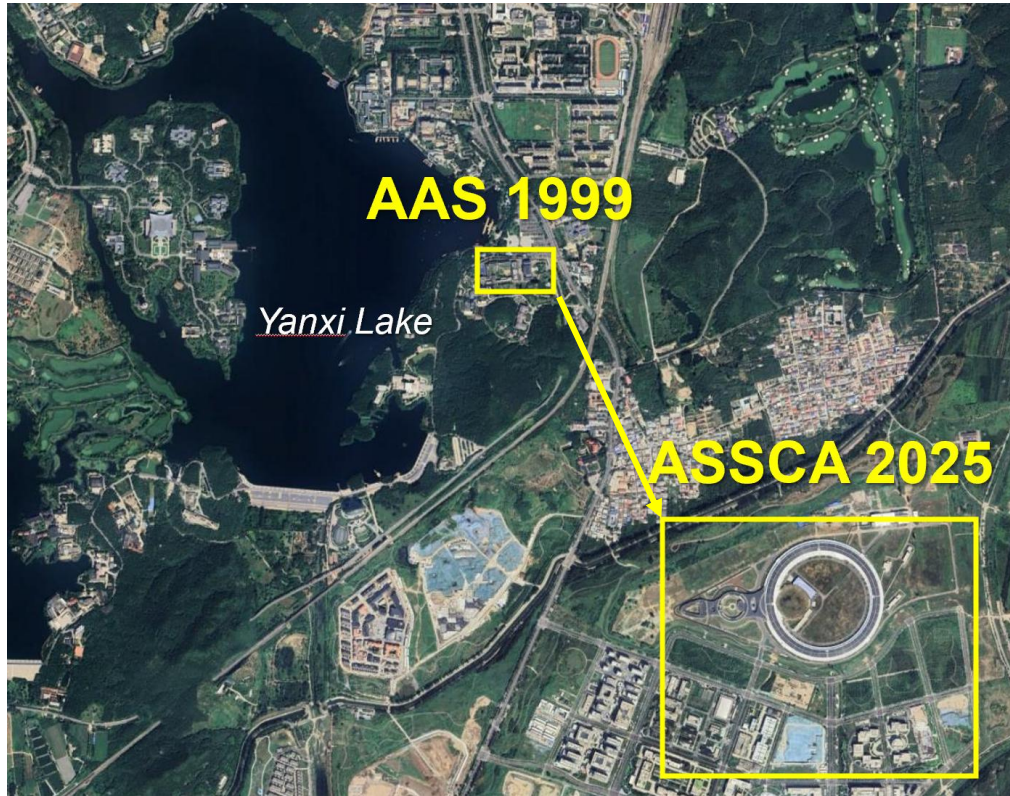
ZHAI Jiyuan (IHEP)

XU Qingjin (IHEP)

JIN Song (IHEP)

BIAN Lin (IHEP)

ASSCA School Back to Huairou 25 Years Later



Asian Accelerator School: Physics and Engineering of High Performance Electron Storage Rings and Application of Superconducting Technology (**Huairou and Beijing, China, November 22-December 4, 1999**)



**They attended Both
AAS 99 & ASSCA25**

GROUP PHOTO



ASSCA2025 Organization

International Advisory Committee

Prof. GE Rui, Institute of High Energy Physics (IHEP), Chinese Academy of Sciences, **China**

Prof. DATTA Tripti Sekhar, Indian Institute of Technology (IIT Kharagpur), **India**

Prof. KIM Eun-san, Korea University, **Korea**

Prof. NAKAI Hirotaka, High Energy Accelerator Research Organization (KEK), **Japan**

Prof. THARAWADEE Nattawut, Silpakorn University, **Thailand**

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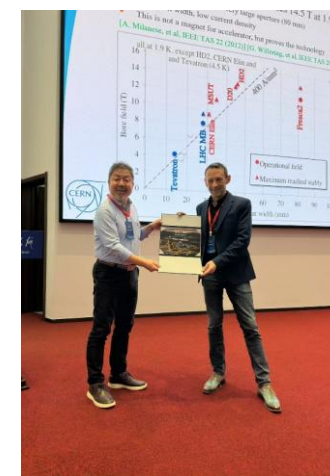
BIAN Lin (IHEP)



Curriculum

- **6 day** courses
- **57 students** from 6 Asian countries
- **22 lectures** by 20 experts (7 from outside China)
- **6 hands-on trainings** by 12 experienced instructors from IHEP

Time	Mar. 23, 2025 Sunday	Mar. 24, 2025 Monday	Mar. 25, 2025 Tuesday	Mar. 26, 2025 Wednesday	Mar. 27, 2025 Thursday	Mar. 28, 2025 Friday	Mar. 29, 2025 Saturday	Mar. 30, 2025 Sunday	Mar. 31, 2025 Monday		
7:30 - 8:30	Arrival	Breakfast								Group Discussion and Free Time	Departure
08:30-08:40 (10 min.)		Welcome	Information / Announcement								
08:40-10:10 (90 min.)		Introduction 1 (08:40-10:40)	Introduction 3	SC Magnet 4	SC Cavity 2	SC Cavity 5	Cryogenics 3				
10:10-10:30 (20 min.)		Photo & Coffee (10:40-11:00)	Coffee Break								
10:30-12:00 (90 min.)		Introduction 2 (11:00-12:00)	SC Magnet 2	SC Magnet 5	SC Cavity 3	Cryogenics 1	Cryogenics 4				
12:00-13:10 (70 min.)		Lunch									
13:10-14:40 (90 min.)		SC Magnet 1	SC Magnet 3	SC Cavity 1	SC Cavity 4	Cryogenics 2	Cryogenics 5 & Closing remarks				
14:40-15:00 (20 min.)		Coffee Break									
15:00-18:00 (180 min.)		HEPS Visit and Hands-on Training	PAPS Visit and Hands-on Training	Hands-on Training	Hands-on Training	Hands-on Training	Hands-on Training				
18:00-19:30 (90 min.)	Box Meal	Reception	Dinner				Banquet				



Lectures at HEPS Middle Ring



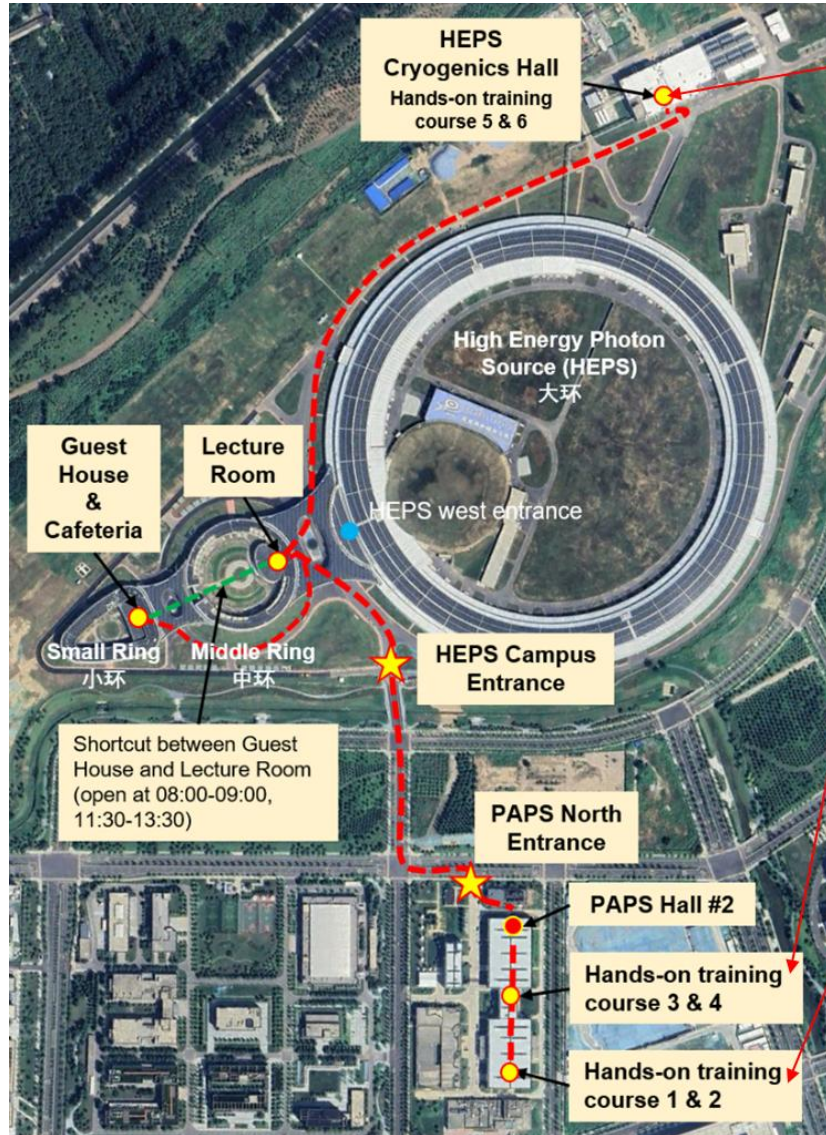
Welcome by ASSCA25 LOC Chair Prof. Rui GE



Opening speech by IHEP Director Prof. Jun CAO



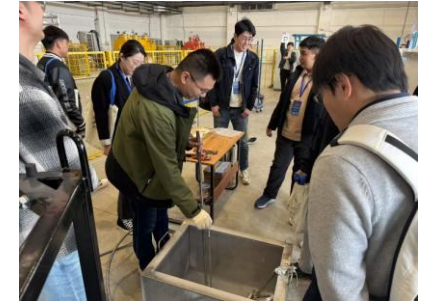
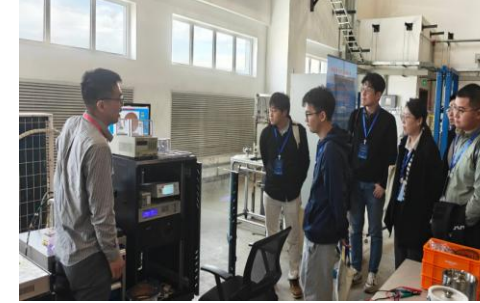
Hands-on Training at HEPS and PAPS



Cryogenics

Temperature measurement and calibration

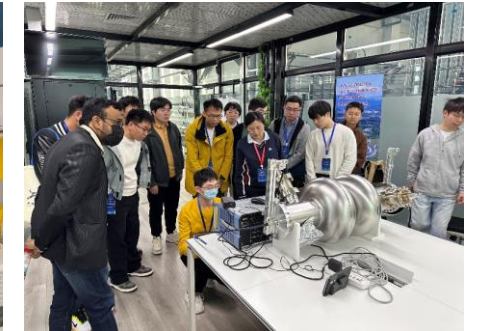
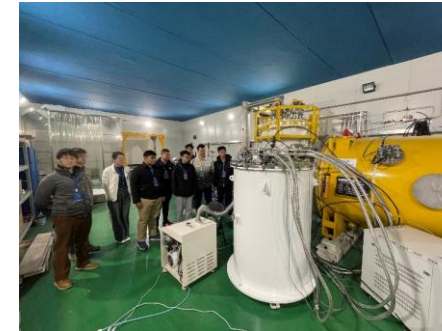
Cryogenic insulation support



SC Cavity

Cavity test at cryogenic temperature

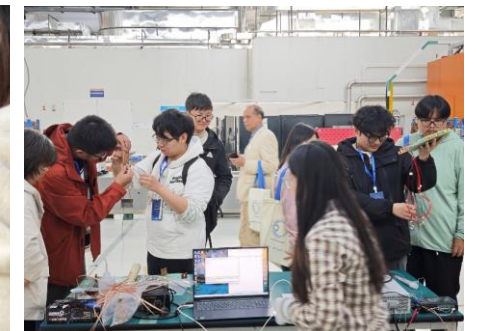
Cavity RF measurement at room temperature



SC Magnet

Fabrication and test of HTS coils

Critical current measurement of superconductors



Lab Tour, Reception, Banquet



ACFA Meeting. June 20, 2025

Thanks Organiser for a Wonderful Banquet and Excursion to Mutianyu Great Wall



Thanks ACFA for your kind attention

7th ASSCA will be in Korea

不到
长城
非
好汉

He who has never been to the Great Wall is not a true man.