



中国科学院等离子体物理研究所

Chinese Academy of Sciences Institute of Plasma Physics (ASIPP)

Bid to Host NIBS 2028 in Hefei China

Jianglong WEI

on behalf of ASIPP NBI team

10th Negative Ions, Beams and Source, Nelson BC, Canada, Sept 20-25, 2026



China's Rapid Growth in Negative Ion Beam Research

Institute

Topic

Institute of Plasma Physics, CAS	Fusion
Institute of High Energy Physics, CAS	Accelerator
Institutes of Modern Physics, CAS	Accelerator
China Institute of Atomic Energy, CNNC	Accelerator
Southwest Institute of Physics, CNNC	Fusion

University

Topic

Peking University	Accelerator
Dalian University of Technology	Fusion
Huazhong Univ. of Science & Technology	Fusion
Harbin Engineering University	Accelerator
University of South China	Fusion

Private Company

Topic

ENN Sci. & Technol. Develop.	Fusion
Thor Age	Fusion
SUYAN Fusion	Fusion

| ~500 researcher are promoting NIBS development in China



ASIPP Leads Fusion & NNBI Development in China

CRAFT | First fusion technology R&D cluster



CFEDR | Chinese fusion DEMO



EAST | First full superconducting tokamak

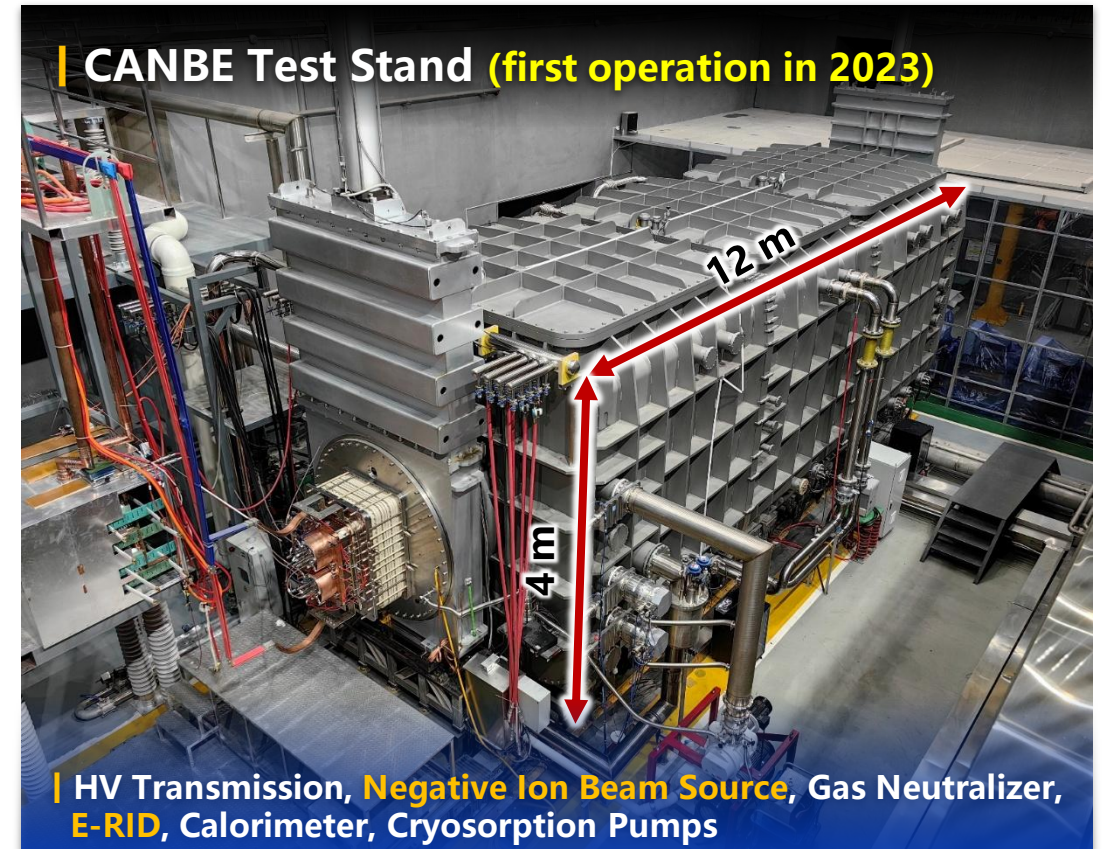
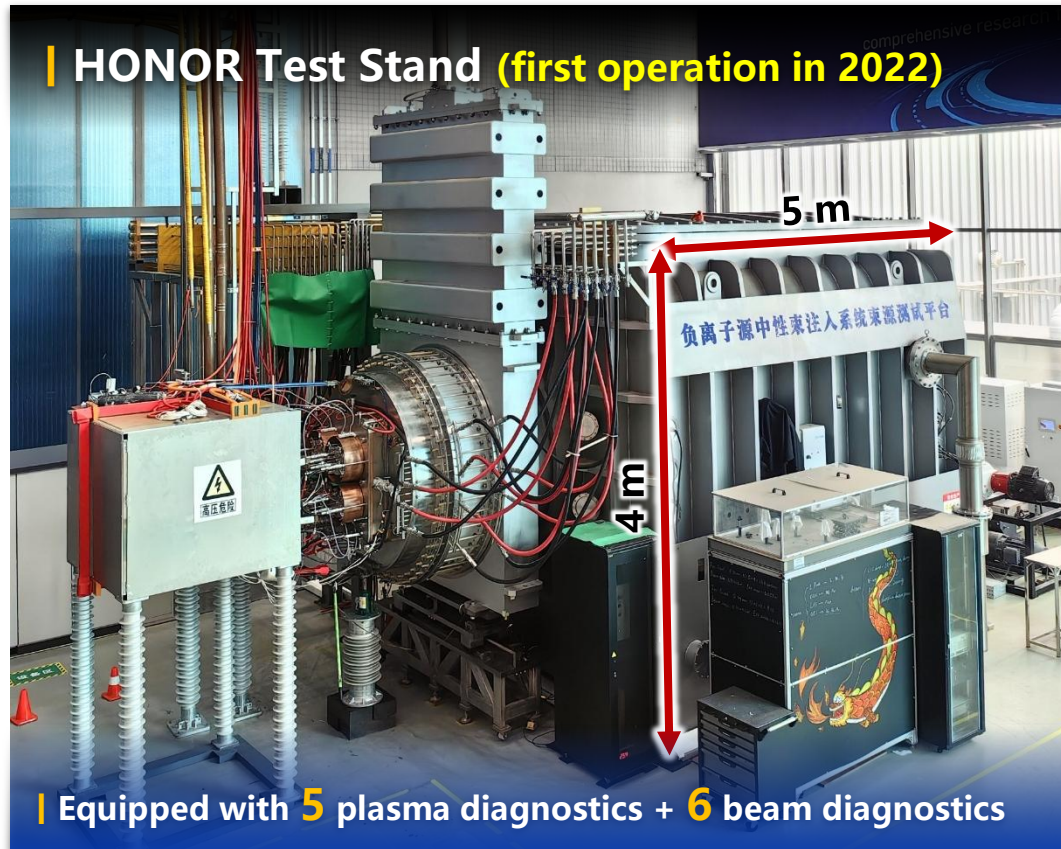


BEST | First fusion to electricity demonstration



World-Class NNBI R&D Platform at ASIPP

- **HONOR** (Hefei Open-facility for Negative-ion Source Research) → **H- production & acceleration**
- **CANBE** (CFETR Advance Neutral Beam Equipment) → **key NNBI technology** (HV, neutralization, beam focus...)



Hefei Hosts 13 Large Scientific Infrastructures

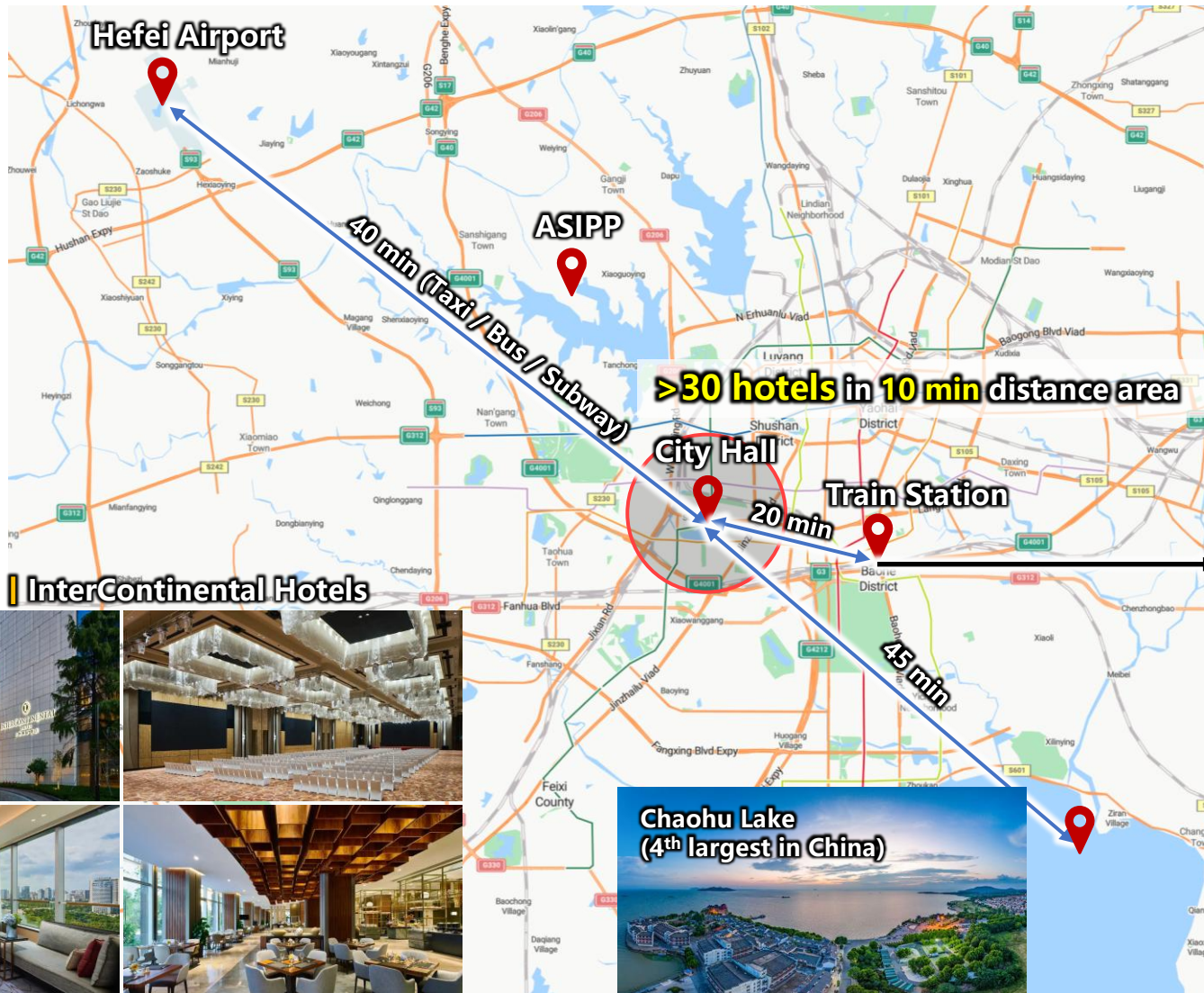


■ Hefei Future Great Science City: world-class large scientific infrastructures cluster

Venue Advantages in Hefei | Transport



Venue Advantages in Hefei | Accommodation



Option 2 | Crowne Plaza Hotels



Option 1 | InterContinental Hotels



1.5 h to **Huangshan scenic area**, every 60 min



NIBS 2028: Preliminary Conference Plan

Topics

Statue of Facilities

Negative Ion Sources for Fusion

Negative Ion Sources for Accelerator

Beam Neutralization & Transport

Plasma & Beam Diagnostics

High Voltage PS & Transmission

Artificial Intelligence

New & Advanced Concept

Expected Scale

Approximately 150+150 participants, with balanced representation from leading international research groups across Europe, Asia, Americas and Oceania

Planned Satellite Workshop

Workshop on Neutral Beam Injection in China



Conference Organization & Guarantee

- | **Host Institution:** Institute of Plasma Physics, Chinese Academy of Sciences (ASIPP)
- | **Co-organizers:** Institute of Energy, Hefei Comprehensive National Science Center
- | **Conference Committee:** International Program Committee, Local Organizing Committee, and dedicated on-site execution team
- | **Full operational guarantees:**
Conference funding, visa invitation support, reception logistics, on-site technical support, and participant safety are all fully confirmed

ASIPP Team | Staffs ~35 & Students ~70





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Thank You

Questions & Discussions

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