

Session Program

2-5 Sept 2025

**SAP2025 - the 15th Symposium on
Accelerator Physics**

Poster Session

Urumqi, Xinjiang, China

Thursday 4 September

18:55

Poster Session: THP

Session | Location: Urumqi, Xinjiang, China

18:55–20:30 Spectral form function with applications in beam physics

Speaker
Xiujie Deng

18:55–20:30 Bunch lengthening study with harmonic cavities for HLS-III

Speaker
Wenshu Liang

18:55–20:30 Lattice design optimization of the interaction region for a super tau-charm facility

Speaker
Linhao Zhang

18:55–20:30 Preliminary scheme for electron cooling using longitudinal hollow electron beam

Speaker
Prof. Xiaodong Yang

18:55–20:30 Physical design of microwave electron gun optimized for carbon nanotube cathodes

Speaker
Tianhui He

18:55–20:30 Design and preliminary implementation of the laser Compton polarimeter for BEPCII

Speaker
Mengyu Su

18:55–20:30 A universal numerical optimization framework for studying seeded free-electron laser schemes

Speaker
Zihan Wang

18:55–20:30 Research on higher-order mode suppression in CEPC electrostatic separators

Speaker
Yuzhe Liu

18:55–20:30 Quasi-linear theory of single-pass microbunching instability

Speaker
Cheng-Ying Tsai

18:55-20:30

Longitudinal collective dynamics in laser modulators of an SSMB storage ring based on macroparticle model**Speaker**

Cheng-Ying Tsai

18:55-20:30

Coherent kW THz radiation from an SSMB storage ring via self-sustained laser modulation**Speaker**

Cheng-Ying Tsai

18:55-20:30

Bunched-beam theory of microbunching instability**Speaker**

Cheng-Ying Tsai

18:55-20:30

Quick estimate of CSR-induced microbunching Instability in a multibend transport beamline**Speaker**

Cheng-Ying Tsai

18:55-20:30

Position-phase error cancellation effects in beam-based linac alignment and synchronization**Speaker**

Haoyu Zhou

18:55-20:30

SOFT: Single-Optics 4D phase space Tomography via double-rotated 2D measurements**Speaker**

Binghui Ma

18:55-20:30

Minimizing the fluctuations of storage ring resonance driving terms using the step-by-step chromaticity compensation method**Speaker**

Wanbin Li

18:55-20:30

Suppression of emittance variation for the HALF storage ring**Speaker**

Mr Xiaoyu Liu

18:55-20:30

Quantifying differences between high dimensional beam phase space distributions with f-divergences**Speaker**

Yu Du

18:55-20:30

Base-e exponential fitting of long-range transverse resistive wall wakefunction

Speaker

Xin Huang

18:55-20:30

Analytical study on measurement errors induced by nonlinear transport and fringe fields in a sector-based energy analysis system**Speaker**

Yan Wang

18:55-20:30

Tracking simulation of longitudinal beam dynamics in a triple RF system for electron storage rings**Speaker**

Jincheng Xiao

18:55-20:30

Modeling of transverse trapped-mode impedance for In-Vacuum Undulators of HALF**Speaker**

Haiyan Yao

18:55-20:30

GPU-accelerated simulation of longitudinal single-bunch instability in electron storage rings**Speaker**

Tianlong He

18:55-20:30

Physical design study of the main magnet for the CIAE 75 MeV cyclotron**Speaker**

JinRong Lu

20:30