CENTRAL CHINA CENTER FOR NUCLEAR THEORY

C3NT Symposium

Frontiers of ab initio Nuclear Theory

Tuesday, December 1, 2026 · Central China Normal University, Wuhan

Suggested presentation timing

40-minute slot: 30-minute presentation + 10 minutes for questions
20-minute slot: 15-minute presentation + 5 minutes for questions

Morning session

Chair: Weijie Du (Institute of Modern Physics, Chinese Academy of Sciences)

9:00 AM - 9:40 AM	**Bingwei Long** · Sichuan University Perturbative-pion interaction
9:40 AM - 10:20 AM	**Ligang Cao** · Beijing Normal University Quenching of the axial-vector coupling constant g_A in beta decay: Joint effects from chiral two-body currents and many-body correlations
10:20 AM - 10:50 AM	**Coffee break**

Chair: Danyang Pang (Beihang University)

10:50 AM - 11:30 AM	**Simin Wang** · Fudan University Exotic phenomena in open quantum systems
11:30 AM - 12:10 PM	**Filippo Fornetti** · Institute of Modern Physics, Chinese Academy of Sciences The EMC effect within light-front Hamiltonian dynamics for few-nucleon bound systems
12:10 PM - 2:00 PM	**Lunch**

Afternoon session

Chair: Mamoon Sharaf (Institute of Modern Physics, Chinese Academy of Sciences)

2:00 PM - 2:40 PM	**Haoyu Shang** · Fudan University ab initio studies of nuclear short-range correlations
2:40 PM - 3:00 PM	**Qing-Yu Zhai** · Beihang University Relativistic Spin-Orbit Dynamics in the Neutron-Deuteron Analyzing-Power Puzzle
3:00 PM - 3:20 PM	**Duo-Lun Ge** · Beihang University Relativistic three-body calculations of proton–deuteron elastic scattering using a significantly faster numerical method
3:20 PM - 3:50 PM	**Coffee break**

Chair: Zhen Li (Technical University of Darmstadt)

3:50 PM - 4:10 PM	**Congwu Wang** · Fudan University / Ruhr University Bochum Persistent state method for determining resonance poles
4:10 PM - 4:30 PM	**Linhai Chen** · Sun Yat-sen University Convergence of Many-Body Truncations in the In-Medium Similarity Renormalization Group
4:30 PM - 4:50 PM	**Weijia Kong** · Beihang University Nd Scattering with N2LO 3NF Using Faddeev-AGS Equations and Light-Ion Reactions with the Resonating Group Method

All times: China Standard Time (UTC+8)