

Tentative agenda

for Shanghai Physics Symposium 2026

● 11.16(Day 1): Dark Matter

Time	Talk Title	Speaker
08:30—09:00	Welcome talk	Jie Zhang
09:00—09:40	Progress and prospects of XENONnT	Elena Aprile
09:40—10:20	Progress and prospects of PandaX-20T	Ning Zhou
10:20—10:40	Coffee Break	—
10:40—11:20	Light Dark Matter: Where Do We Stand?	Tomer Volansky
11:20—12:00	An experimental survey of axion searches	Lindley Winslow
12:00—14:00	Lunch Break	—
14:00—14:40	Experimental search for axion dark matter-fermion interactions	Dmitry Budker
14:40—15:20	Laboratory gravitational detection of dark matter	Gerard Higgins
15:20—15:40	Coffee Break	—
15:40—16:20	Tabletop detection of dark matter	Jing Shu
16:20—17:00	Atomic clocks and dark matter	Nils Huntemann
18:00—20:00	Dinner	—

● 11.17(Day 2): Fundamental Properties of Neutrinos

Time	Talk Title	Speaker
09:00—09:40	Summary of neutrino oscillation experiments	Yifang Wang
09:40—10:20	All Roads Leading to Absolute Neutrino Mass	Shun Zhou
10:20—10:40	Coffee Break	—
10:40—11:20	Physics of solar neutrinos	Wick Haxton
11:20—12:00	High energy cosmic neutrinos	Donglian Xu
12:00—14:00	Lunch Break	—
14:00—14:40	Neutrinoless double beta decay	Ke Han
14:40—15:20	Experimental detection of relic neutrinos	Marcello Messina
15:20—15:40	Coffee Break	—
15:40—16:20	Measurement of neutrino mass via electron capture	Yuekun Heng
18:00—20:00	Dinner	—

● **11.18(Day 3): Gravity, gravitational waves, and quantum gravity**

Time	Talk Title	Speaker
09:00—09:40	Overview of gravitational wave detection	David Blair
09:40—10:20	Taiji Project	Yueliang Wu
10:20—10:40	Coffee Break	—
10:40—11:20	Exploring the Universe with Quantum Technology	Oliver Buchmueller
11:20—12:00	Experimental searches for high-frequency gravitational waves	Andreas Ringwald
12:00—14:00	Lunch Break	—
14:00—14:40	Precision Tests of Gravity with Atomic Quantum Sensors	Guglielmo M. Tino
14:40—15:20	Detecting Gravitons	Igor Pikovski
15:20—15:40	Coffee Break	—
15:40—16:20	Optomechanical test of quantum nature of gravity	Yiqiu Ma
18:00—20:00	Dinner	—

● **11.19(Day 4): AMO/EDM/fundamental symmetry**

Time	Talk Title	Speaker
09:00—09:30	Neutron EDM and quantum sensors	Peter Fierlinger
09:30—10:00	Search for the nuclear Schiff moment of ^{171}Yb with laser-trapped atoms	Zhengtian Lu
10:00—10:15	Coffee Break	—
10:15—10:45	Nuclear clock and fundamental physics	Shiqian Ding
10:45—11:15	Advanced sensor and potential applications to fundamental physics	TBD
11:15—11:45	Advanced sensor and potential applications to fundamental physics	Xing Rong
11:45—12:00	Summary	Xiangdong Ji
12:00—13:00	Lunch Break	—
13:00—15:00	Back to TDLI	—
15:00—18:00	Shanghai Lab Visit	—
18:00—20:00	Dinner	—