

Session Program

12-16 Jan 2026



IAS Program on Fundamental Physics (FP 2026)

Conference: Parallel sessions (New Experiments/Technologies/Probes)

Monday 12 January

16:10

Conference: Parallel sessions (New Experiments/Technologies/Probes): M-NTP01: New Experiments/Technologies/Probes I

Session |

Location: IAS2042, 2/F, IAS2042, 2/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of
Science and Technology, Hong Kong |

16:10-16:30 Recent Progress of DarkSHINE R&D

Speaker

Xuliang ZHU

16:30-16:50 Probing Dark Particles in Neutrino Scattering Experiments

Speaker

Ruofei FENG

16:50-17:10 Reactor Detection of Dark Sector Particles

Speaker

Jie TANG

17:10-17:30

[Online via Zoom] Quantum artificial intelligence for pattern recognition at high-energy colliders: Tales of Three "Quantum's"

Speaker

Hideki OKAWA

17:50

Thursday 15 January

16:10

Conference: Parallel sessions (New Experiments/Technologies/Probes): Th-NTP02: New Experiments/Technologies/Probes II

Session |

Location: IAS1038, 1/F, IAS1038, 1/F, Lo Ka Chung Building, Lee Shau Kee Campus, The Hong Kong University of
Science and Technology, Hong Kong |16:10-16:30 **Detecting Ultralight Dark Matter with Matter Effect****Speaker**

Xucheng GAN

16:30-16:50 **[Online via Zoom] SRF Cavity Search for New Physics****Speaker**

Jing SHU

16:50-17:10 **Quantum Nature Based Detection of Signals Free of Classical Noise****Speaker**

Xuliang DU

17:10-17:30

[Online via zoom] Measure Gravitational Wave with a Novel Mössbauer Spectrometer**Speaker**

Huaqiao ZHANG

17:30-17:50 **Detect Axions with Mössbauer Effect****Speaker**

Shengyi LIU

17:50