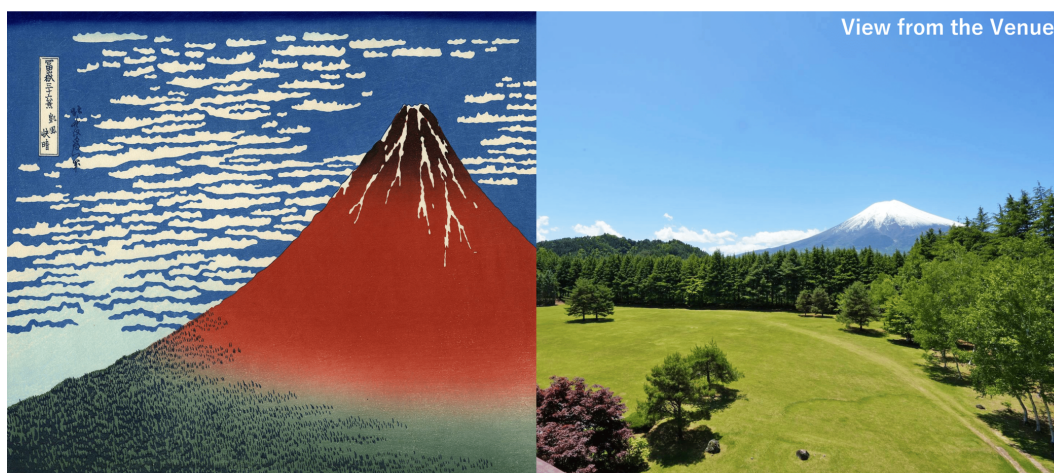


Session Program

7-13 Aug 2026



30th International Summer Institute on Phenomenology of Elementary Particle Physics and Cosmology (SI2026)

Session

Fuji Calm
Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

Saturday 8 August

09:00
09:15
11:00
12:00

Session: Opening
Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

Session
Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

11:00-11:40

A Solution to the Hierarchy Problem using Non Linear Quantum Mechanics
Speaker
Surjeet Rajendran

11:40-12:00

Light Dark Matter Detection at Torsion Balance
Speaker
Jie Sheng

Sunday 9 August

09:00

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

09:00–10:00

Tripartite Entanglement in Particle Scattering and Decays

Speaker

Kazuki Sakurai

10:00

10:15

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

10:15–10:55

Effective Field Theory Across Scales

Speaker

Motoko Fujiwara

10:55

16:30

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

16:30–17:10

TBA

Speaker

Prof. Volodymyr Takhistov

17:10–17:30

Enhanced Dark Matter Quantum Sensing via Geometric Phase

Speaker

Xiaolin Ma

17:30

17:45

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

17:45–18:05

Machine Learning the Refined de Sitter Conjecture: A No-Scale Supergravity Case Study

Speaker

Hyunjoo Jung

18:05–18:25

Higgs Production Classifier using Weak Supervision

Speaker

Prof. Cheng-Wei Chiang

18:25

19:30

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

19:30–20:10

An On-Shell Bootstrap Program of Cosmological Correlators

Speaker

Zhong-Zhi Xianyu

20:10

Tuesday 11 August

10:45

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

10:45–11:25

Gravitational Probe of Ultralight Dark Matter

Speaker

Hyungjin Kim

11:25–11:45

Nuutrino oscillation due to bosonic dark matter

Speaker

Ankhbayar Tugssaikhan

11:45–12:05

Angular momentum of vacuum bubbles in a first-order phase transition

Speaker

Jan Tristram Acuña

12:05

17:10

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

17:10–17:50

Why Dark Matter May Have Self-Interactions

Speaker

Hai-Bo Yu

17:50

Wednesday 12 August

09:00

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

09:00–10:00 **Connecting the baryons to the dark matter of the Universe**

Speaker

Alejandro Ibarra

10:00

10:15

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

10:15–10:55

TAICO project ~ Search for Ultra-Heavy Exotic Particles via Fossil Damage Tracks in Ancient Minerals

Speaker

Tatsuhiro Naka

10:55–11:15

Probing the 3+1 neutrino model in the SHiP experiment

Speaker

Seong Moon Yoo

11:15

11:30

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

11:30–12:10

Identifying high energy sources of CP violation and PQ breaking with EDMs

Speaker

Dr Sang Hui Im

12:10

15:25

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

15:25–16:05

Fine-tuning in inflation: effects, constraints, and case studies

Speaker

Wenqi Ke

16:05–16:25

Kinetic isocurvature perturbation

Speaker

Jinn-Ouk Gong

16:25–16:45

Sign-Flipping Axion Potentials via Kapitza-Type Modulation by Heavy Axions

Speaker

Kosei Tomiyama

16:45

17:00

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

17:00–17:20

Boltzmann Equation Solver for Thermalization

Speaker

Jong-Hyun Yoon

17:20–17:40

Reheating after Axion Inflation and its GW signature

Speaker

Tenta Tsuji

17:40

Thursday 13 August

09:00

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

09:00–09:20

Uniform Matrix Product States for Hamiltonian Lattice Gauge Theories: Methods and Applications

Speaker

Kohei Fujikura

09:20–09:40

Measurement-induced time operator and its uncertainty relation with energy

Speaker

Naoya Ogawa

09:40

09:55

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

09:55–10:15

Probing Light Higgsinos with Electroweak Precision Measurements at Future e+e- Colliders

Speaker

Natsumi Nagata

10:15–10:35

Invisible Higgs interactions at the muon collider

Speaker

Kyu Jung Bae

10:35

11:15

Session

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

11:15–11:55

Primordial Black Hole signatures from femtolensing and spectral fringe of Gamma-Ray Bursts

Speaker

Po-Yen Tseng

11:55

11:55

Session: Closing

Session | **Location:** Fuji Calm, Araya 5-1-1, Fuji-Yoshida, Yamanashi, Japan

12:15