

ANNOUNCEMENTS

Join us at LCWS2026 at KEK, Japan!

by Rika Takahashi



The International Workshop on Future Linear Colliders 2026 (LCWS2026) will be held at KEK in Tsukuba, Japan, from 9 to 13 November 2026.

LCWS2026 continues the international workshop series dedicated to the physics, detectors and accelerator technologies of future high-energy electron–positron colliders. It will bring together researchers from around the world to share recent progress, discuss future directions and strengthen collaboration across the global future-collider community.

Linear colliders offer a compelling option for a next-generation Higgs factory, with a flexible path towards higher centre-of-mass energies and luminosities. LCWS2026 will therefore place particular emphasis on the long-term potential of linear colliders, including energy and luminosity upgrades, as well as their complementarity and synergy with circular collider initiatives.

The programme will include plenary and parallel sessions covering accelerator technologies, detector concepts and physics studies. Both in-person and remote participation are available.

Registration is now open. The early-registration fee is available until 4 October, and in-person registration closes on 25 October. Remote registration is available until 1 November.

We warmly invite researchers, engineers, students and all those interested in the future of high-energy colliders to join us at KEK—or online—and contribute to the discussions shaping the next generation of particle physics.

For further details, including the programme, registration, accommodation and visa information, please visit the [LCWS2026 website](#).

We look forward to welcoming you to Tsukuba!

IN THE NEWS

from *FNN News*

4 September 2026

[宇宙誕生再現の巨大施設 I L C の東北誘致へ 推進団体が気仙沼市で説明会〈宮城〉](#)

巨大実験施設 I L C = 国際リニアコライダーの東北への誘致を進める団体が、宮城県気仙沼市で現状の説明会を開きました。

from *Kahoku Shinpo*

30 August 2026

[岩手・宮城の北上山地が建設候補地の ILC 誘致 岩手県立大学長「今年中の政治判断が不可欠」](#)

岩手、宮城両県境にまたがる北上山地が建設候補地の超大型加速器「国際リニアコライダー（I L C）」の誘致を目指す東北 I L C 事業推進センターは 28 日、機運醸成への説明会を宮城県気仙沼市で開催した。センター代表で、岩手県立大学長の鈴木厚人氏は「実現するには今年中の政治決断が不可欠」と強調した。

from *Iwate Nippo*

11 July 2026

[北海道・東北県議会議長会が ILC 誘致実現要望](#)

北海道・東北 6 県議会議長会は 10 日、自民党と文部科学省などに国際リニアコライダー（I L C）誘致実現について要望した。

from *Nikkan Kogyo News*

16 June 2026

[東北 ILC 推進協、国際リニアコライダー誘致へ 国に枠組み具体化協議を要望](#)

東北 I L C 推進協議会（仙台市青葉区）は、仙台市内で 2026 年度総会を開き、国際リニアコライダー（I L ...

from *22 May 2026*

Science

[It's official: Europe physicists plan to build 91-kilometer particle collider](#)

They initially hoped the LHC would find not just the Higgs, but other new particles as well, which meant the LHC's successor could be a smaller, straight-shot linear collider that would study those particles in detail.

from *Nikkei*

14 March 2026

[岩手企業の加速器関連、受注額が10億円超え ILC 誘致に力蓄える](#)

岩手県内企業の加速器関連の受注額が2025年度、10億6000万円に達し、単年度で初めて10億円を超えたことが県のまとめでわかった。岩手県から宮城県に広がる北上山地は巨大加速器、国際リニアコライダー（ILC）の建設候補地。誘致が実現した場合に備え、対応できる地元企業が力を蓄えつつある。

from *Physics World*

29 January 2026

[The Future Circular Collider is unduly risky – CERN needs a 'Plan B'](#)

Three of these ideas reflect the European Strategy for Particle Physics, which states that “an electron–positron Higgs factory is the highest-priority next CERN collider”. Two linear electron–positron colliders would require just 11–34 km of tunnelling and could begin construction in the mid-2030s, but would involve a fair amount of technical risk and cost roughly €10bn.

from *CERN Courier*

14 January 2026

[Seven colliders for CERN](#)

LCF

The Linear Collider Facility (LCF) is a linear electron-positron collider, based on the design of the International Linear Collider (ILC), in a 33.5 km tunnel with two IPs sharing the pulses delivered by the collider and with double the repetition rate of ILC.

PREPRINTS

ARXIV

- **2608.18023**
Can $\gamma\gamma$ collisions rival e^-e^+ in probing doubly charged Higgs bosons?
- **2608.14195**
Probing the Single Production of First-Generation Singlet Vector-like Leptons at Future e^+e^- Colliders
- **2607.06753**
Phenomenology of Leptophilic Gauge Interactions at Future e^+e^- Colliders
- **2606.28717**
Vector-Like Lepton Pair Production With Polarized Beams at Linear Colliders: Sensitivity Projections and Chirality Observables
- **2604.21332**
Disentangling new physics with quantum entanglement in $t\bar{t}$ production at future lepton colliders
- **2604.20385**
Prospects of boosted magnetic dipole inelastic fermion dark matter at ILC-BDX
- **2604.06103**
The SUSY reach of Higgs Factories in the most challenging scenario: scalar τ -leptons with lowest cross section and small mass differences
- **2604.04512**
Adapting ILC detector concepts to other facilities
- **2604.02245**
Search for dark photons at future e^+e^- colliders
- **2603.16603**
Searches for the leptophilic Z' boson at the International Linear Collider and Linear Collider Facility
- **2603.04200**
 $e^+e^- \rightarrow s\bar{s}$ at $\sqrt{s}=250$ GeV at future linear colliders
- **2603.01172**
Midterm Status Report of the ILC Technology Network Activities
- **2602.00501**
KEK Accelerator Test Facility Low-Level RF and Timing Systems
- **2601.20840**
Investigation on the photoproduction of bottom-charmed baryon within NRQCD
- **2601.01527**
Top-quark pair production in electron-positron collisions within the minimal noncommutative Standard Model

Reconstructed 2026-10-23 from the saved issue layout and available article content.

Join us at LCWS2026 at KEK, Japan!



The International Workshop on Future Linear Colliders 2026 (LCWS2026) will be held at KEK in Tsukuba, Japan, from 9 to 13 November 2026.

LCWS2026 continues the international workshop series dedicated to the physics, detectors and accelerator technologies of future high-energy electron–positron colliders. It will bring together researchers from around the world to share recent progress, discuss future directions and strengthen collaboration across the global future-collider community.

Linear colliders offer a compelling option for a next-generation Higgs factory, with a flexible path towards higher centre-of-mass energies and luminosities. LCWS2026 will therefore place particular emphasis on the long-term potential of linear colliders, including energy and luminosity upgrades, as well as their complementarity and synergy with circular collider initiatives.

The programme will include plenary and parallel sessions covering accelerator technologies, detector concepts and physics studies. Both in-person and remote participation are available.

Registration is now open. The early-registration fee is available until 4 October, and in-person registration closes on 25 October. Remote registration is available until 1 November.

We warmly invite researchers, engineers, students and all those interested in the future of high-energy colliders to join us at KEK—or online—and contribute to the discussions shaping the next generation of particle physics.

For further details, including the programme, registration, accommodation and visa information, please visit the [LCWS2026 website](#).

We look forward to welcoming you to Tsukuba!