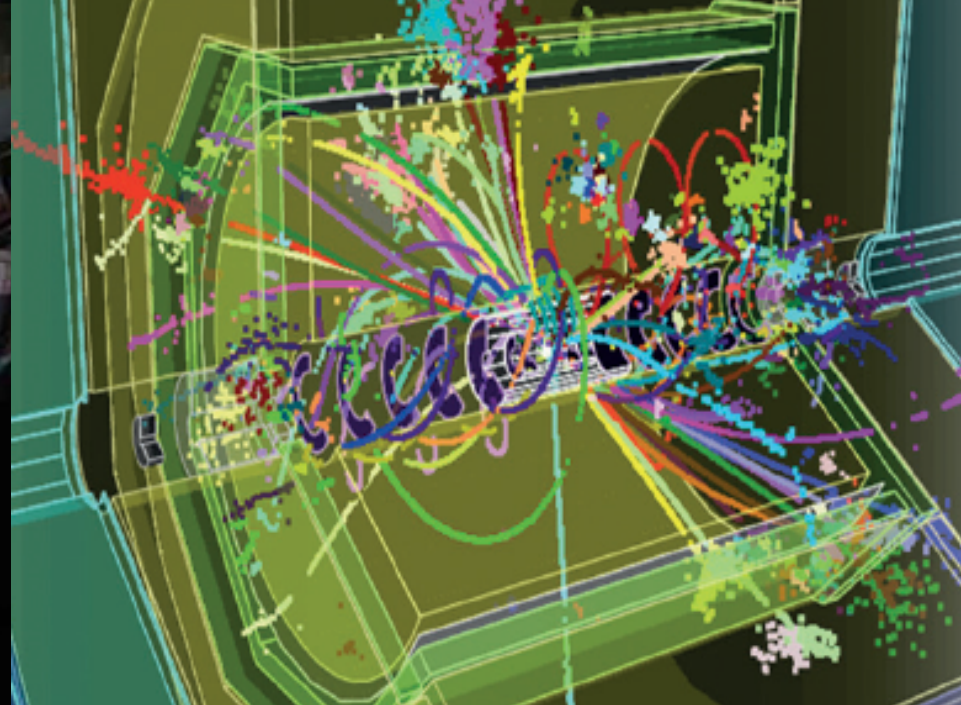
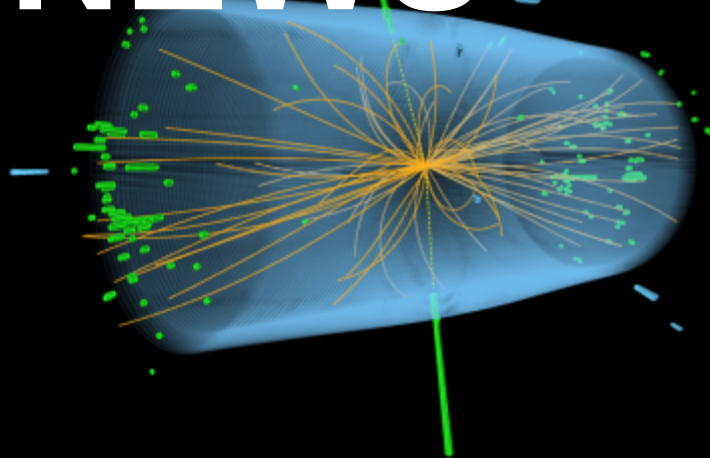


NEWS



Benno List, Christophe Grojean, Christian Schwanenberger, Jenny List
35th Future Colliders @ DESY meeting
07 March 2025

- ESPPU:
Open Symposium re-emphasized FCC-ee as the first choice for a new flagship project at CERN.
Alternatives discussed for the case that FCC-ee will not be financially feasible or scientifically competitive comprise a Linear Collider, LEP3, LHeC. New hadron collider directly ~28 BCHF. MuonCollider not sufficiently ready.
- Germany:
KET decided that there will be no further update of the German ESPPU input for the November deadline
- US:
National Academies Report was submitted yesterday on 11 June
<https://nap.nationalacademies.org/catalog/28839/elementary-particle-physics-the-higgs-and-beyond>
(Note that this report goes to DoE, NSF and also, contrary to the P5 report, Congress) with two main recommendations:
 - Recommendation 1: The United States should host the world's highest-energy elementary particle collider around the middle of the century. This requires the immediate creation of a national muon collider research and development program to enable the construction of a demonstrator of the key new technologies and their integration.
 - Recommendation 2: The United States should participate in the international Future Circular Collider Higgs factory currently under study at CERN to unravel the physics of the Higgs boson.

- HALHF plan for a “pre-CDR” by April 2026
- new workpackage structure being set up — volunteers invited!
- Supergroups (DESY people involved — probably not complete):
 - G: Global design issues (B. Foster, M. Thevenet)
 - Global optimization and coordination
 - Global self-consistent start-to-end simulation
 - P: PWA (K. Poder, J. Wood, S.Bohlen)
 - PWFA linac
 - Plasma heating and cooling
 - PWFA driver distribution and delays and combiner rings
 - Driver dumping and radiation safety
 - C: Other Accelerator Systems (G. Moortgat-Pick, M.Trautwein, M.Formela, N.Hamann)
 - RF driver linac
 - BDS & collimation
 - Damping rings
 - Polarized positron source
 - Positron RF linac
 - Structure acceleration and alternatives to klystrons
 - civil engineering and sustainability
 - D: Physics & Detector (J.List, M.Wing, G. Moortgat-Pick, J.Reuter)
 - Physics
 - Asymmetric Detector
 - IP Beam Dynamics

Upcoming Events

Future Collider related

- FCC-ee workshop on particle flow reconstruction, 1-5 September at CERN.
- October 20-24, Valencia: LCWS2025 <https://agenda.linearcollider.org/event/10594/>
- the 2026 FCC week will take place in Helsinki 8-12 June

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**Next FC@DESY date: September 5
2pm, SemRm 2 — let us know your suggestions!**