

Impulse von KET

Michael Duehrssen-Debling for KET
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KET is very thankful to the accelerator community
as one of the fundamentals of particle physics

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European Strategy for Particle Physics

- Ongoing discussion of the [European Strategy for particle physics](#)
- Germany:
 - KET organized 4 community workshops to consolidate the German contribution
 - KfB submitted it's own contribution in support. Many thanks!
 - A future Higgs factory is the highest priority for the German community
 - The German community supports FCC-ee as next flagship project at CERN. If the FCC-ee is not feasible a linear e+e- collider is seen as a very good alternative
- [Open Symposium](#) in June in Venice
 - Based on submitted 263 contributions submitted end of March 2025
 - Physics Briefing Book expected end of September 2025

Some preliminary conclusions (K. Jakobs) from the Open Symposium on the next flagship project at CERN by ~2045

- HL-LHC will continue to run for ~15 years
 - paramount to exploit the machine to its maximum potential
 - >80% of data still to be collected
- FCC feasibility study concluded with technical feasibility demonstrated
- Majority of CERN member states support the integrated FCC-ee/hh program
- Linear colliders (LCF, CLIC) as mature alternative options for Higgs factories
- LEP3, LHeC possible “intermediate” collider projects
- Accelerator R&D remains high-priority research field
 - Superconducting magnet technology
 - High-performance RF cavities
 - New acceleration techniques
- FCC-hh: High-field magnets 14-20 T needed, possible long term goal
- Muon collider: not at the level of maturity of other collider proposals for ~2045
- **Great opportunity for the German accelerator community to contribute!**