



FCC The Swiss Perspective

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FCC support at the political level

Federal Council intends to increase Swiss support for CERN projects

Bern, 10.12.2021 - Switzerland must promote CERN's long-term development potential, particularly in terms of spatial planning, which has prompted the Federal Council to initiate work on a federal sectoral plan focusing on CERN projects. According to the current state of planning, the Federal Council intends to submit a dispatch to Parliament creating the necessary legal basis by the end of 2022.

Switzerland, as one of the two Host States, has the strongest interest in a bright and long-term future of CERN

- Such a future can only be secured by a visionary project such as the FCC

Federal Council decision to strongly supports the further development of CERN

- <https://www.admin.ch/gov/en/st/art/documentation/media-releases.msg-id-86379.html>

Secretary of Education, Research and Innovation (SERI) via the CERN Council Delegation strongly advocated for the launching of the FCC feasibility study



FCC support from the scientific community



With the HL-LHC, new physics will be fully probed up to an energy scale of at least ~ 1 TeV in the near future. The next step has to include decisive studies of the properties of the Higgs and the top quark. This should then be followed by the exploration of an energy scale that is an order of magnitude higher than what can be reached with the LHC in the years to come.

For this reason, the Swiss community considers the FCC to be the most promising project for the next high-energy frontier machine at CERN. The FCC would start as an e^+e^- collider. It is a challenging project that requires R&D, but does not need the

FCC has a leading involvement and participation from **the Swiss Particle Physics Community** from the beginning

Clear and strong statement of support resulting from a consensus reached in a series of discussions among the Swiss researchers in particle and astroparticle physics - organized in the Swiss Institute for Particle Physics (CHIPP)

- Input to the European Strategy Update
- CHIPP roadmap 2020 for Research and Infrastructure 2025-2028 and beyond
- FCC Swiss workshops: Sept 2021 and August 2022



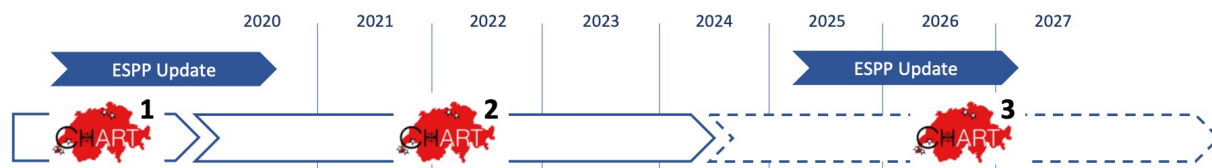
FCC support from the scientific community

Strong Accelerator R&D "Stimulus Package" Program founded the Swiss Accelerator Research and Technology (CHART) Collaboration

- with commitments from SERI, ETHs, PSI, UniGE and CERN
- Main goals: development of future accelerator technologies with emphasis in high field magnets; development of accelerator concepts beyond the existing technology for synchrotron light sources, medical and industrial applications



Main topics pursued during the current CHART2 program: - High Field Magnet R&D (including HTS) - Beam Dynamics and FCCee injector studies - Site feasibility studies (geodesy, geological modelling)





Thanks for your attention