Working at CERN –

My path and my experience

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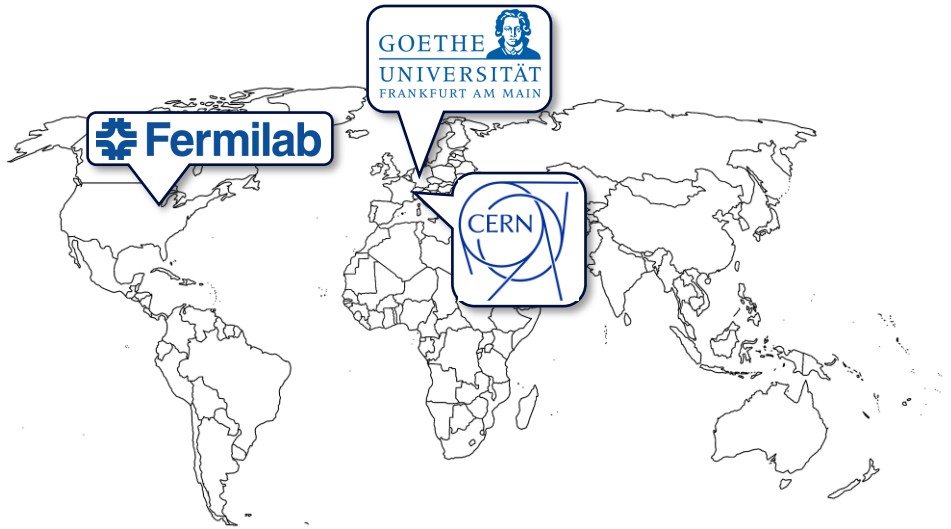
April 17th, 2026

Overview

- **Studium Goethe Universität Frankfurt/Main**
  - Förderung Studienstiftung
- **Promotion in (Beschleuniger)-Physik**
- **CERN staff (since 2018)**
- **Working on: Machine Protection for LHC**



M.A. in Politics/L.A. studies
Diploma in Physics

Ph.D.
in Physics

Team Leader (2014-2016)

Visiting Scientist (2015)

Fellow ABT group (2016-2018)

Staff MPE group (2018-today)

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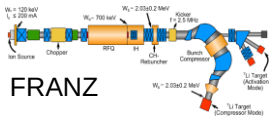

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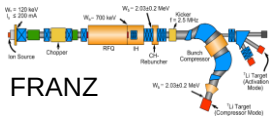

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Fermilab

CERN

CERN

Decided to join CERN…
…and move from low to high energy and from linear to circular accelerators

…enthusiastic to work at the LHC
…intrigued by the international environment
…strongly aligned with CERN values

CONVENTION

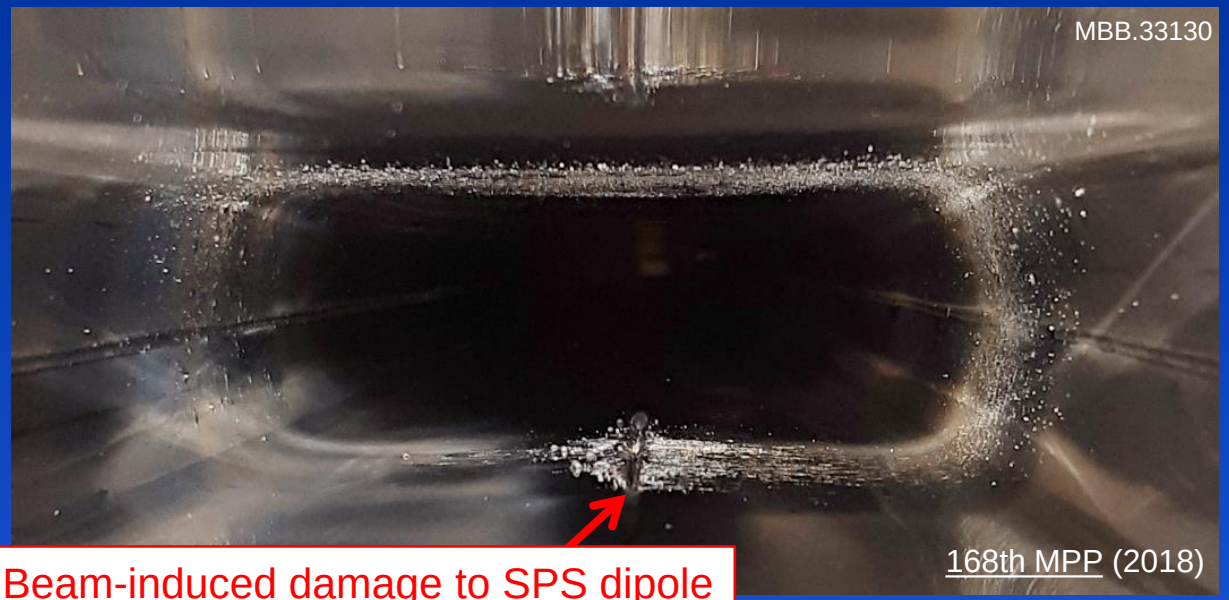
FOR THE ESTABLISHMENT OF A EUROPEAN ORGANIZATION
FOR NUCLEAR RESEARCH

PARIS, 1st JULY, 1953

CERN Open Science

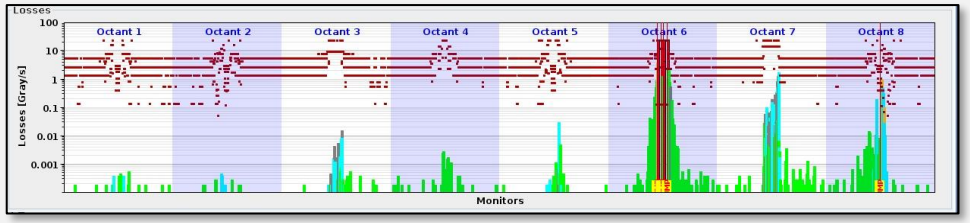
"The Organization shall have no concern with work for military requirements and the results of its experimental and theoretical work shall be published or otherwise made generally available."
CERN convention

Machine Protection



Beam-induced damage to SPS dipole chamber (~2 MJ beam, 400 GeV)

Beam loss pattern during LHC beam dump



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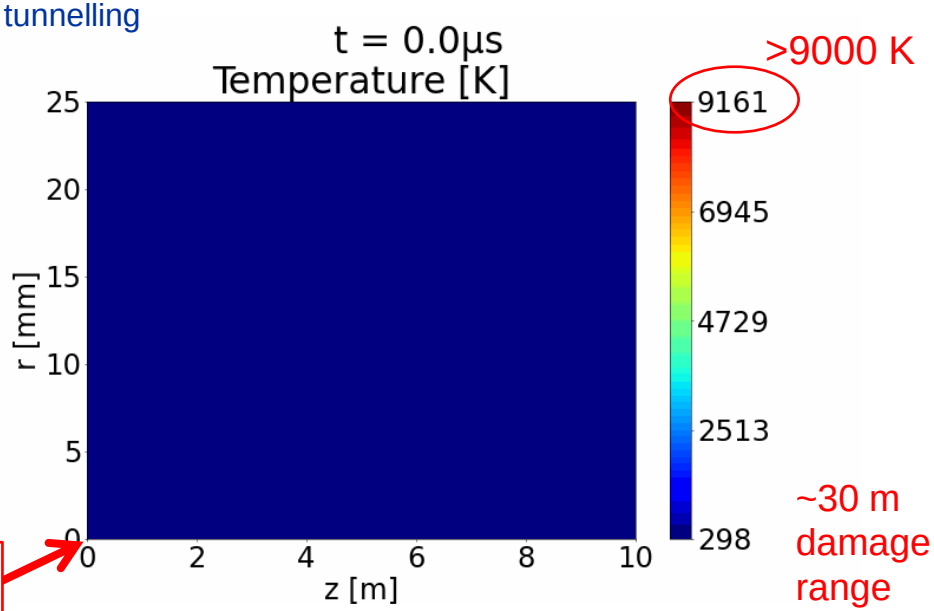
Hydrodynamic tunnelling simulation



Simulated impact of the HL-LHC beam on a graphite cylinder (680 MJ, 7 TeV)

No beam-loss-induced damage has occurred at LHC!

Thank you very much for your attention!

Questions?