

July 7th, 2017

IFAE 25th Anniversary Celebration

CAREERS BEYOND IFAE

Frederic Teubert



1992 -1997:

PhD Student & Postdoc at IFAE
ATLAS & ALEPH Experiments



1997-Today:

Senior Research Physicist at CERN
ALEPH & LHCb Experiments

*"At IFAE I discovered my interest
for precision measurements as
indirect probes for New Physics"*

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◀ At IFAE...

- RD34 Collaboration: construction/simulation/calibration/Test Beam analysis of a prototype of the ATLAS TILECAL.
- ALEPH Collaboration: precision Z physics at LEP 1. Electroweak SM fits (indirect prediction of top and Higgs mass before discovery).
- PhD on innovative method to use Z radiative events to extract energy dependence of EW parameters with the ALEPH LEP 1 data.

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►► 20 years as CERN research physicist...

- ALEPH Collaboration: precision W physics at LEP-2, TPC detector.
- LHCb Collaboration: Overall design of the LHCb detector, with emphasis on vertex detector and trigger system.
- Construction/commissioning and physics exploitation of the LHCb data with emphasis on rare decays of the B meson.
- Future upgrade of LHCb in high pileup HL-LHC.
- pEDM storage ring proposal within CERN Physics Beyond Collider.