

ARD @ FLA

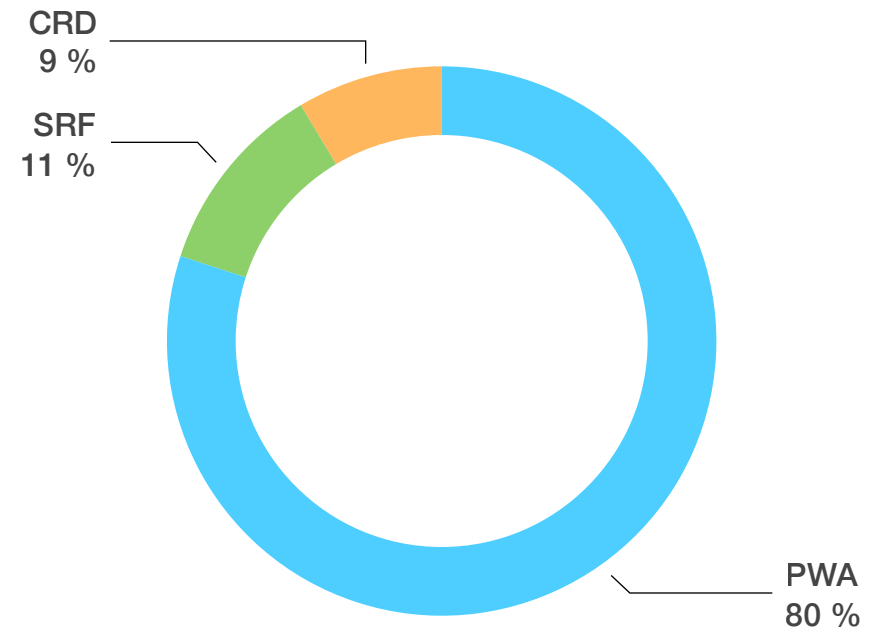
Bernhard Schmidt
DESY - FLA , 6.9.2018

Coordination System

FLA : the ARD group in FH (particle physics) division

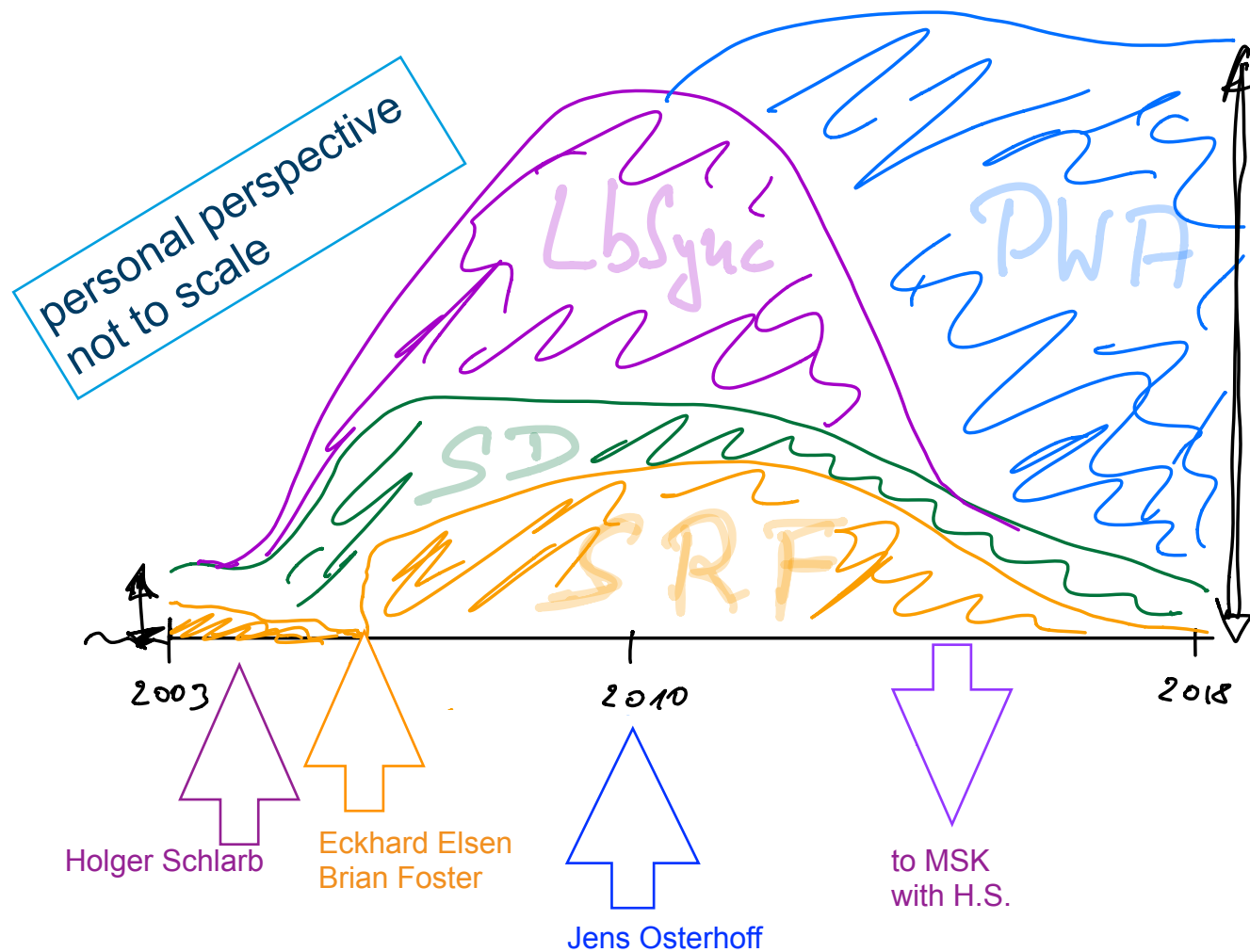
present activities:

- **Plasma wake fields (PWA)**
- **superconducting RF (SRF)**
- **special diagnostics (CRD)**

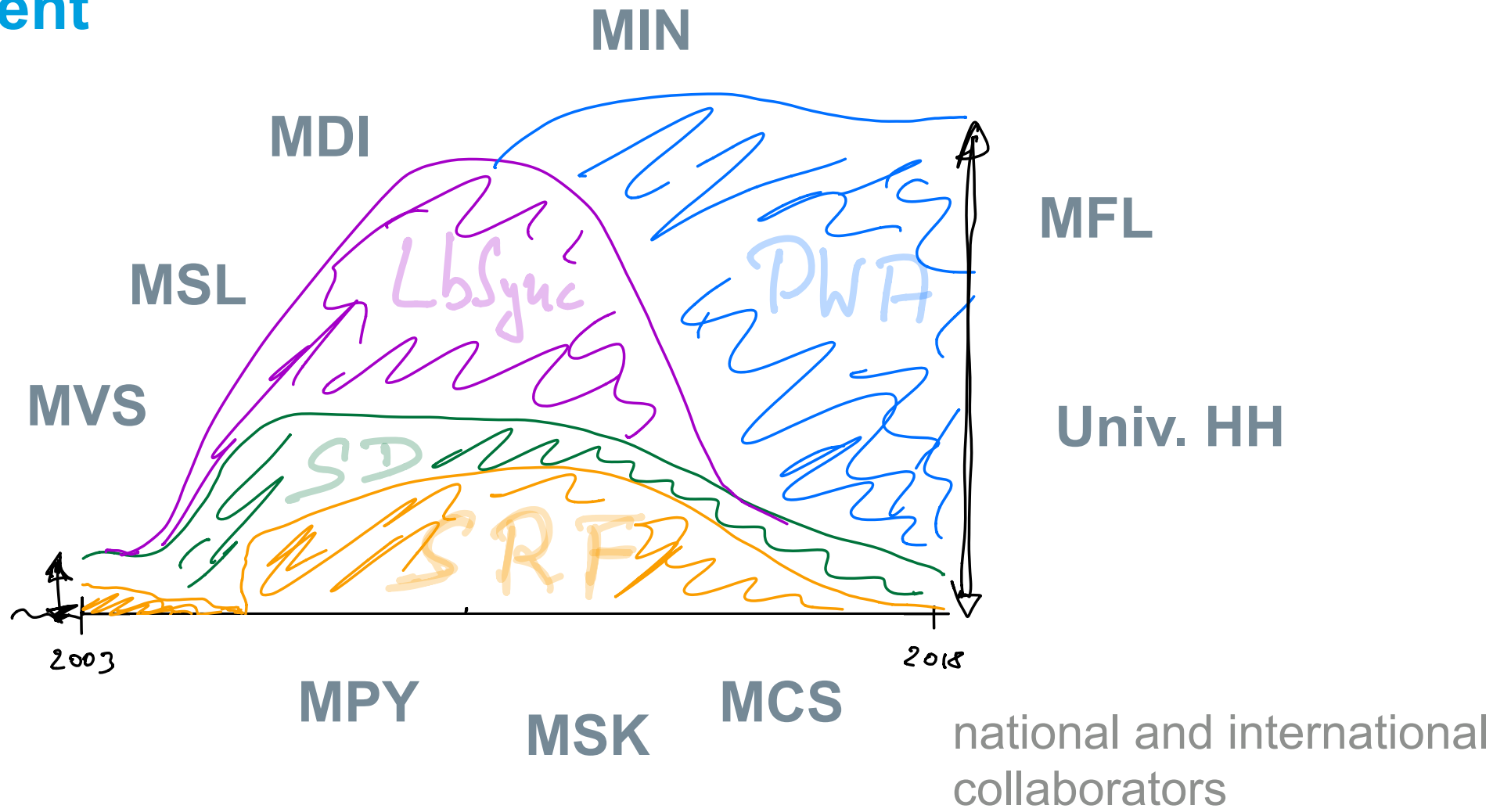


History

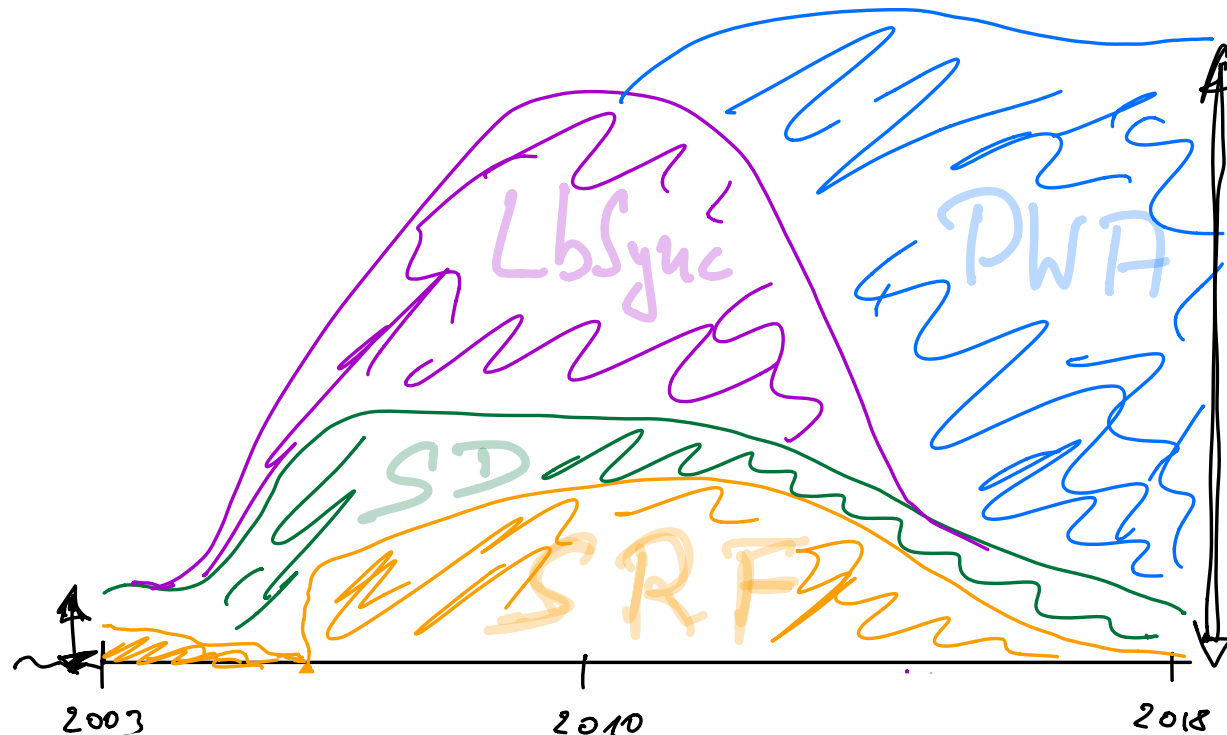
ARD in FH dates back to the time of HERA construction (at least)



Environment



History



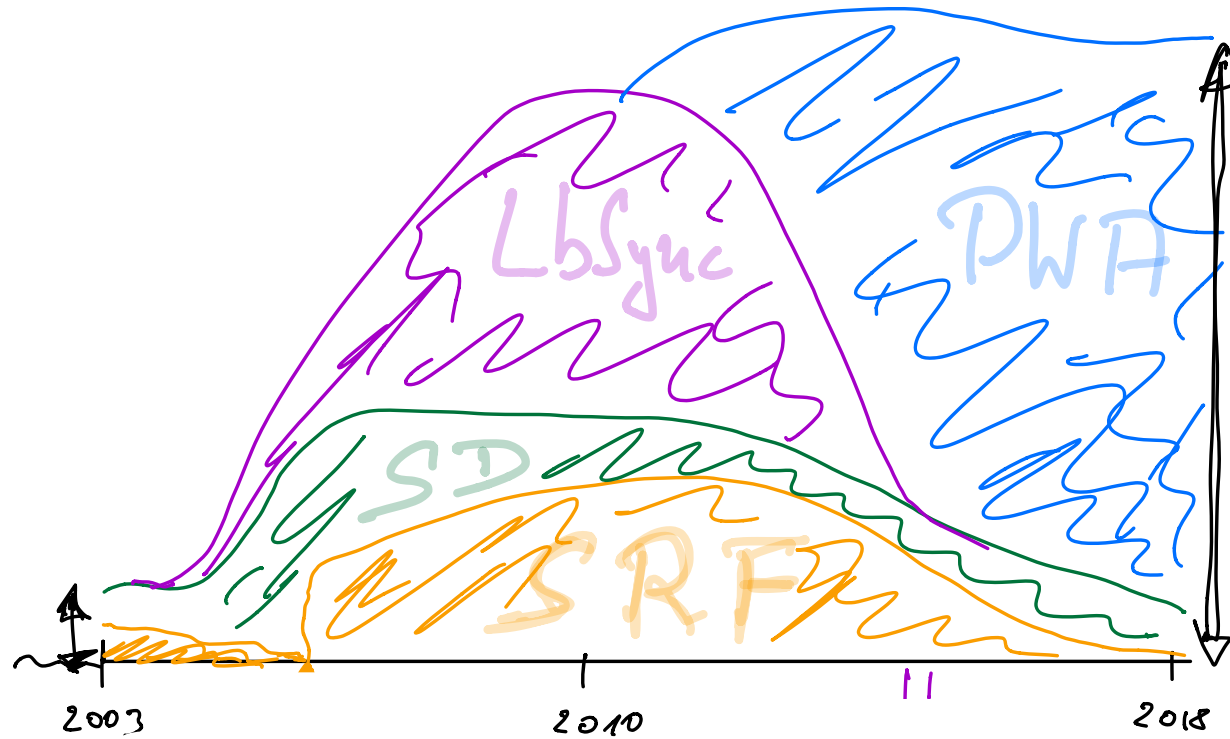
SRF

(Eckhard Elsen, Brian Foster)

substantial contributions to:

- design and set-up of AMTF
- high-grade lab
 - tumbling
 - grinding
 - surface inspection (OBACHT)
- XFEL cavities, production, evaluation
- sensors (RRR, second sound..)
- basic surface research

History

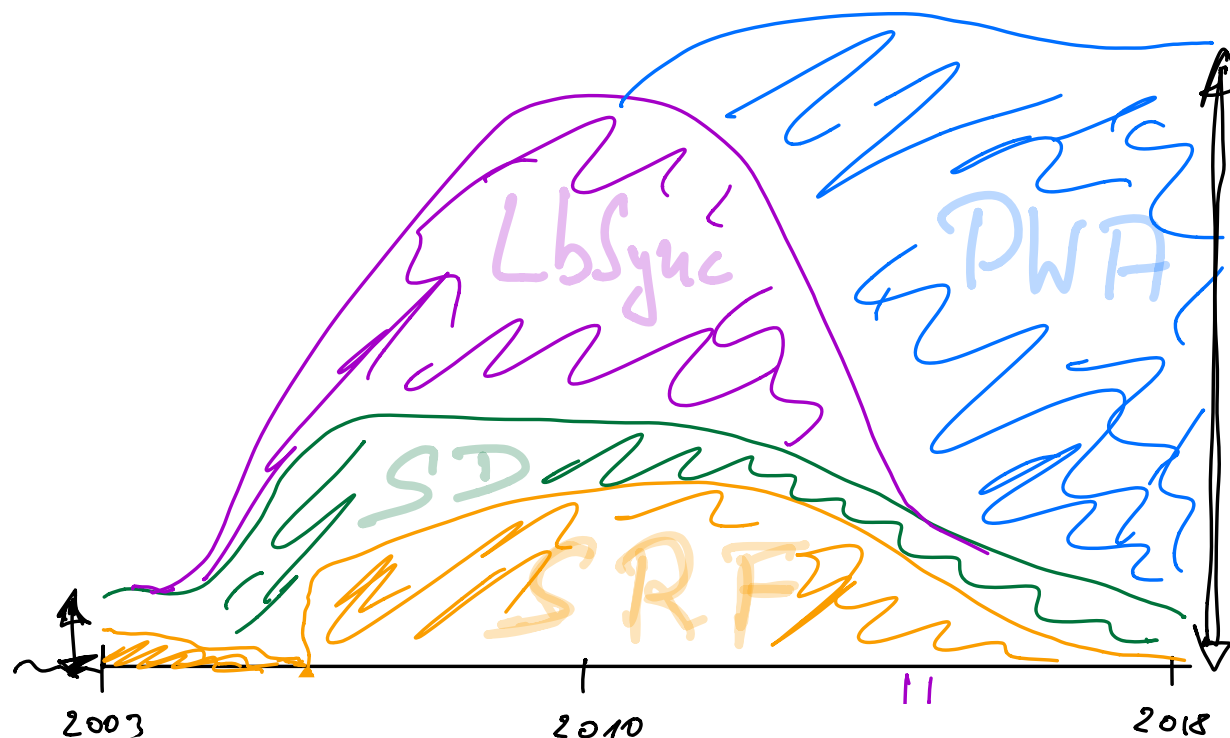


Special Diagnostics

(Peter Schmüser, BS)

- emittance measurement at FLASH
- TDS (LOLA)
 - commissioning
 - first systematic measurements
 - slice emittance
- electro optic bunch profile (EO)
 - EO-SD
 - EO-TD (world record resolution)
- coherent radiation (CRD)
 - compression monitors
 - FFT spectroscopy
 - CRISP, multi grating spectrometer

History

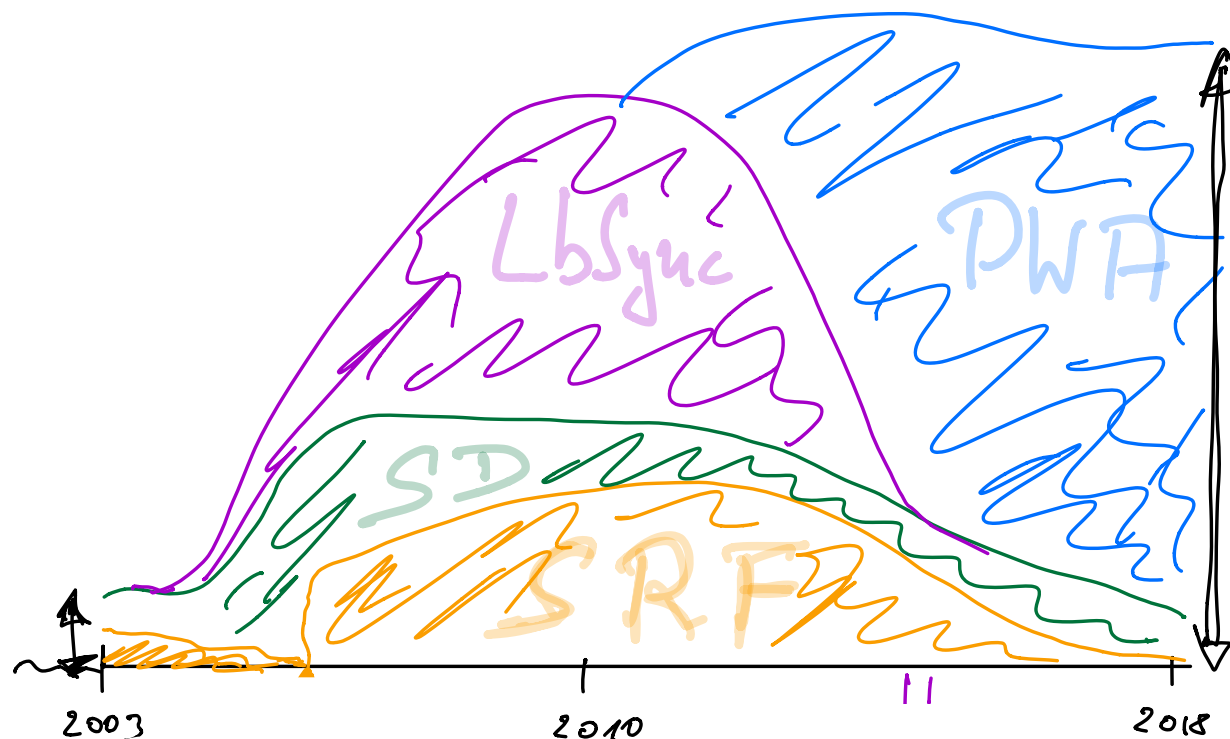


Laser based synchronisation

(Holger Schlarb)

- actively stabilised fibre links
- MLO development
- bunch arrival monitors (BAM)
- all-optical laser synchronisation
- intra bunch train feedback
-

History

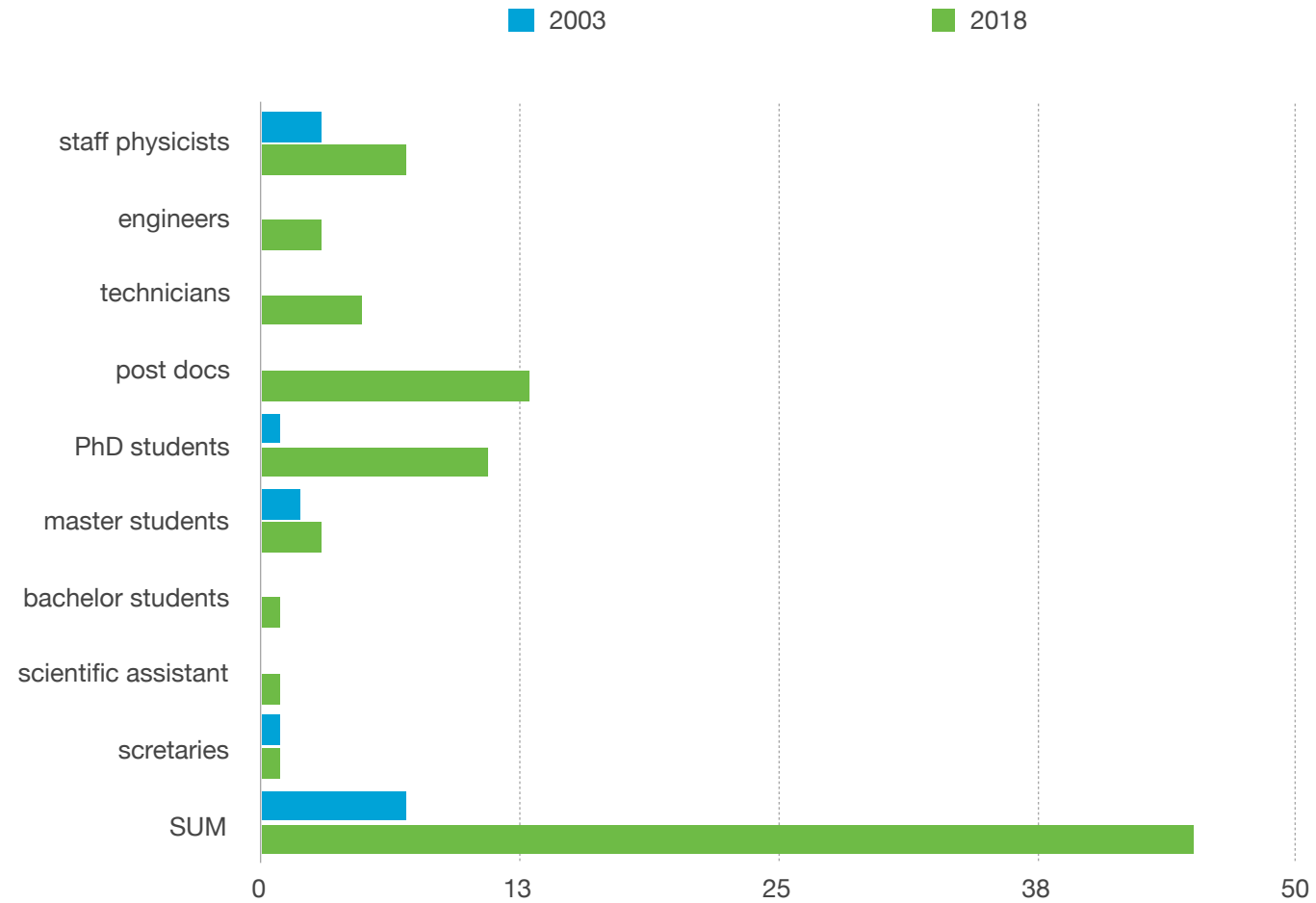


PWA

(Jens Osterhoff)

.. talks and posters...

personell



enjoy the talks and posters...