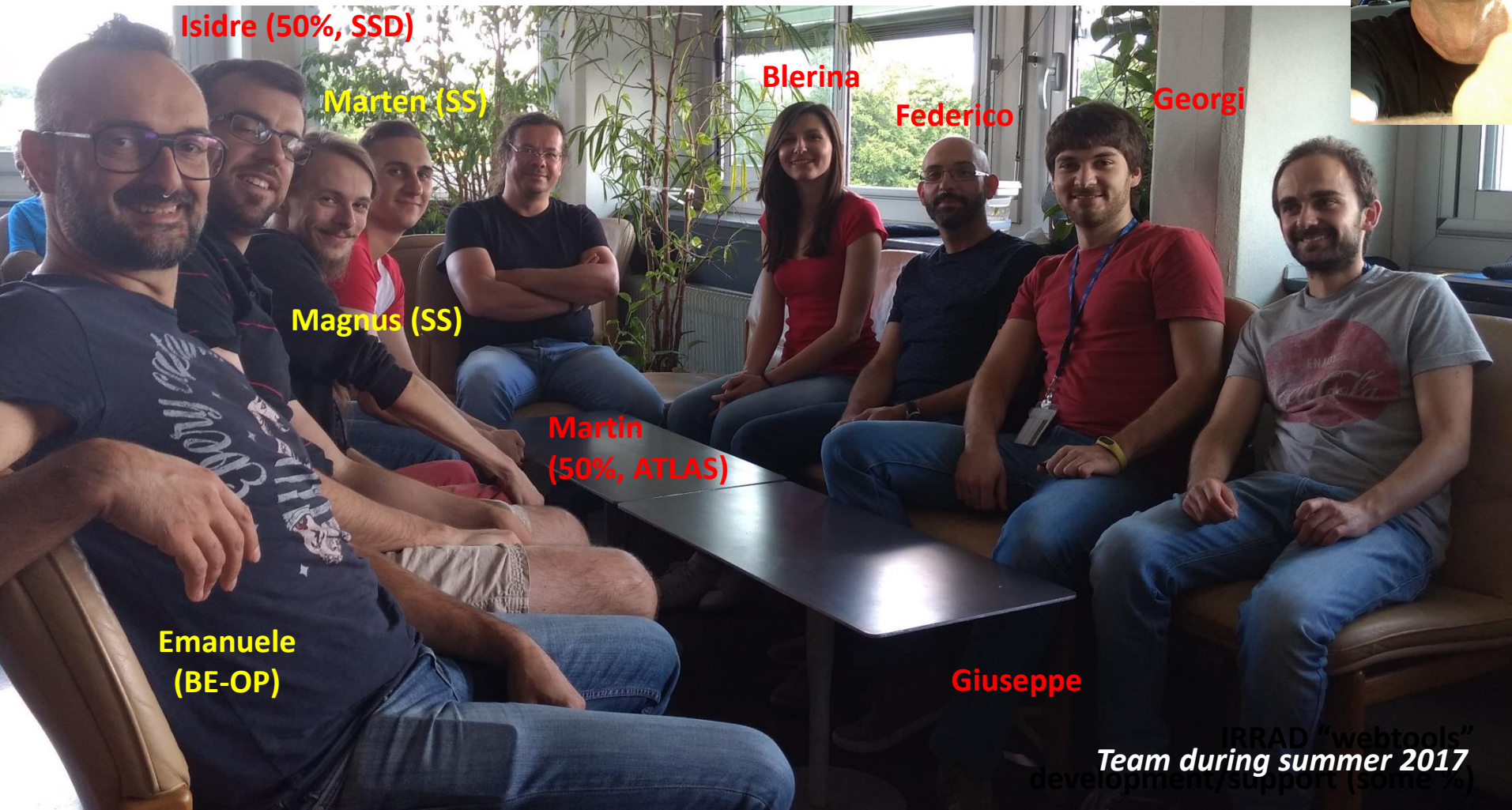


Irradiation Facilities Team



Maurice
(Honorary Member)



Isidre (50%, SSD)

Marten (SS)

Blerina

Federico

Georgi

Magnus (SS)

**Martin
(50%, ATLAS)**

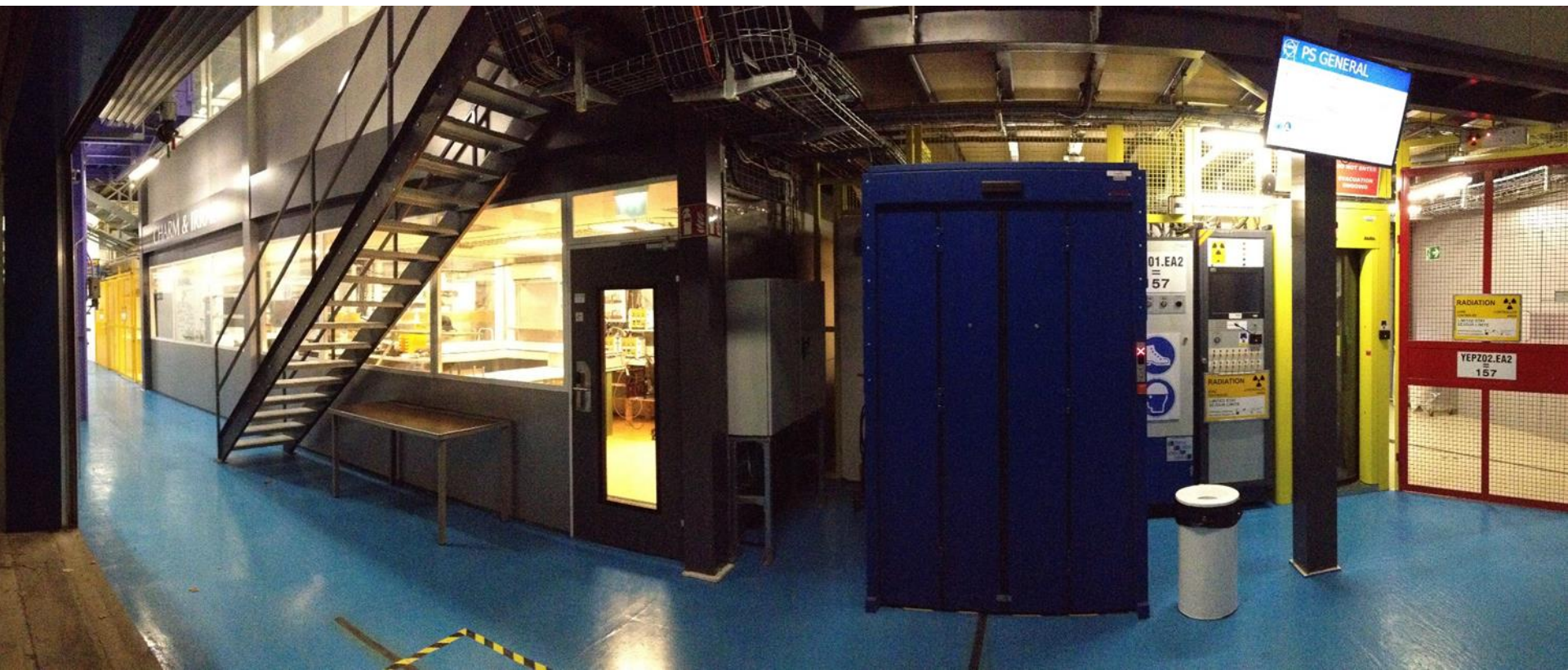
**Emanuele
(BE-OP)**

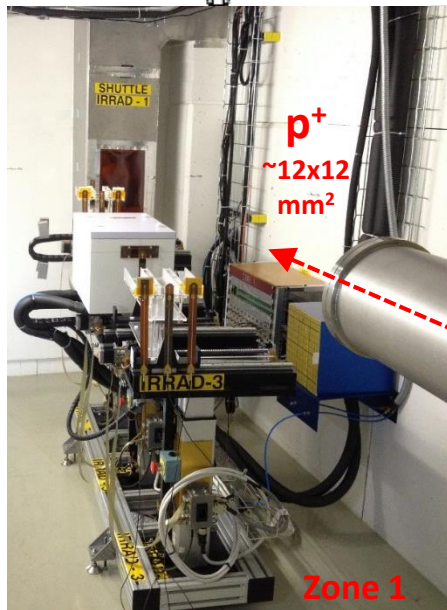
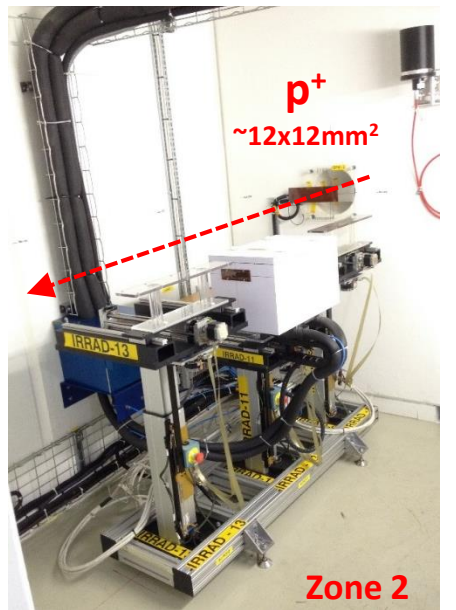
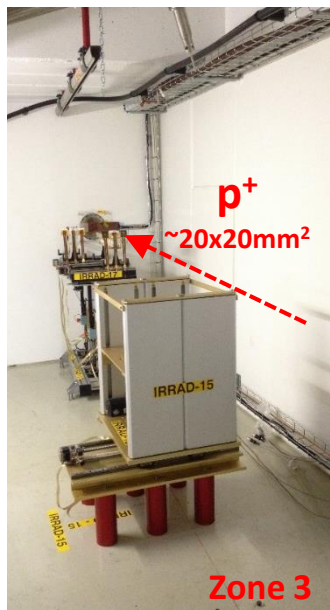
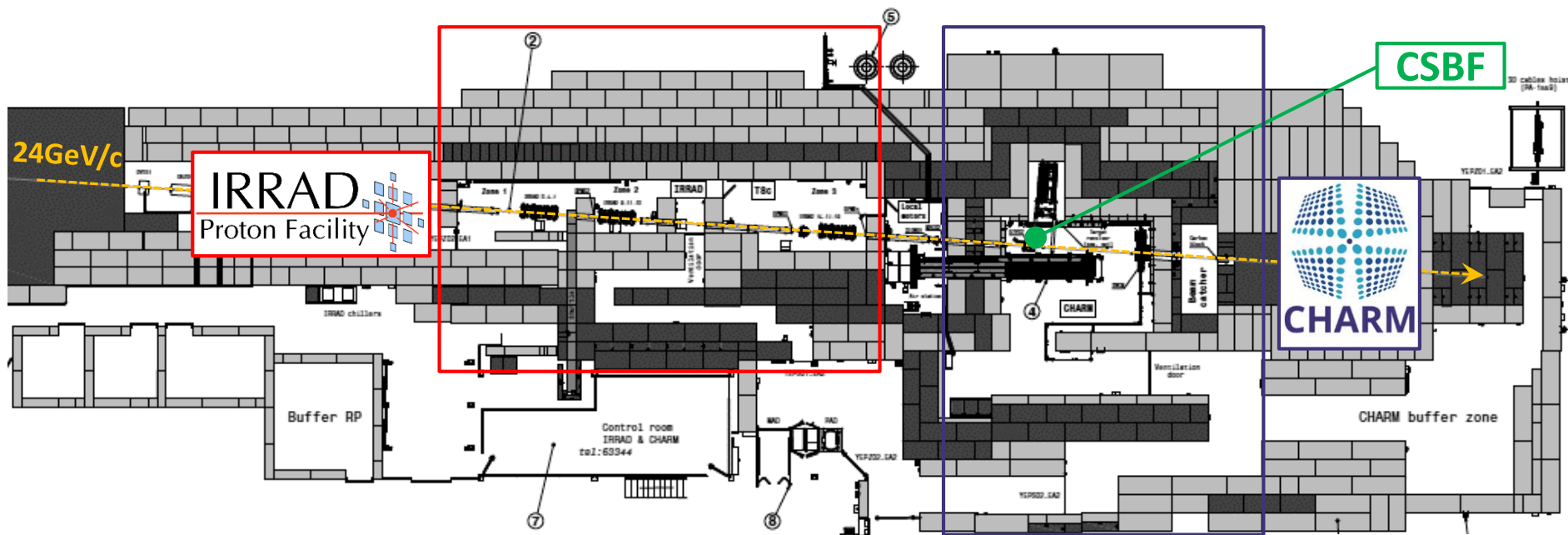
Giuseppe

IRRAD "webtools"
development/support (some %)
Team during summer 2017

IRRAD Summary Run 2017

IRRAD Team: B. Gkotse, M. Glaser, G. Gorine, I. Mateu, G. Pezzullo, F. Ravotti
www.cern.ch/ps-irrad





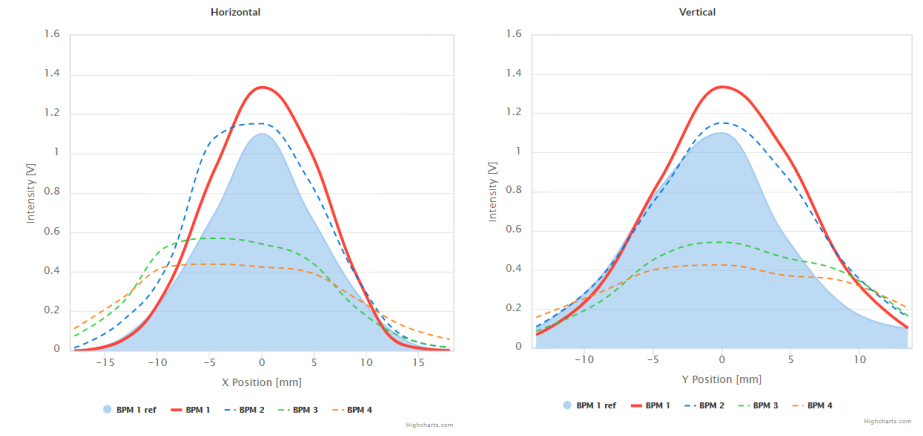
CERN Shielding Benchmark Facility (CSBF)



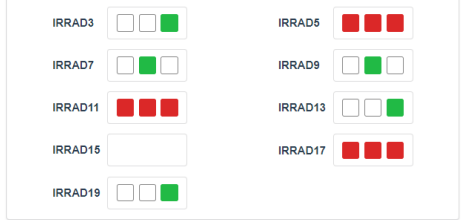
Summer Student Project with BE/OP (Magnus) supervised by Emanuele & Blerina

IRRAD status 2017-11-30 15:45:08 BEAM

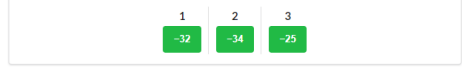
BPM PROFILE



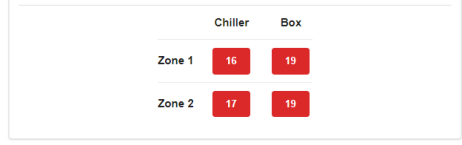
TABLES



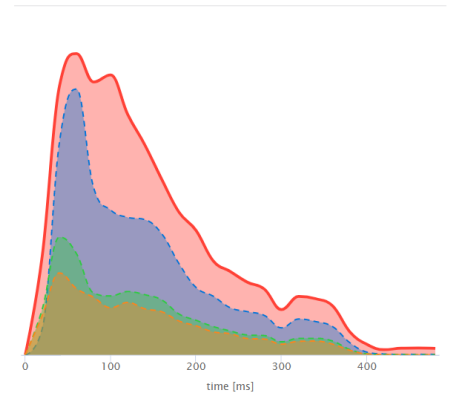
STORAGE FREEZERS (°C)



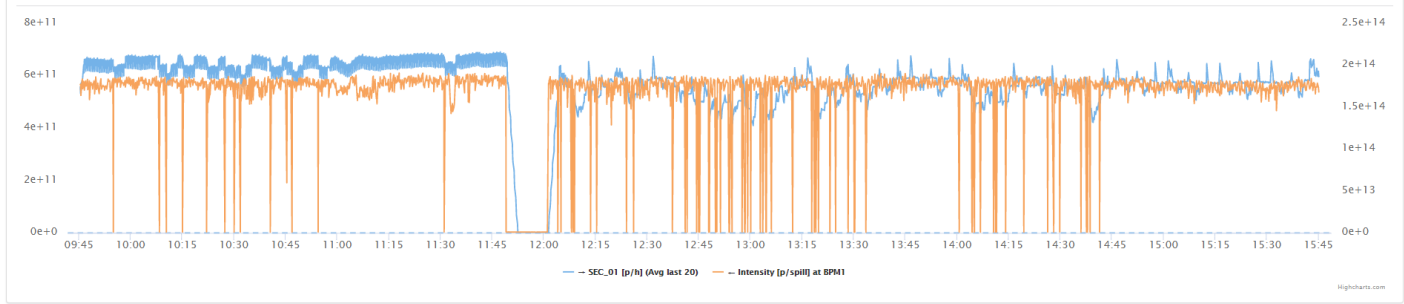
CHILLERS (°C)

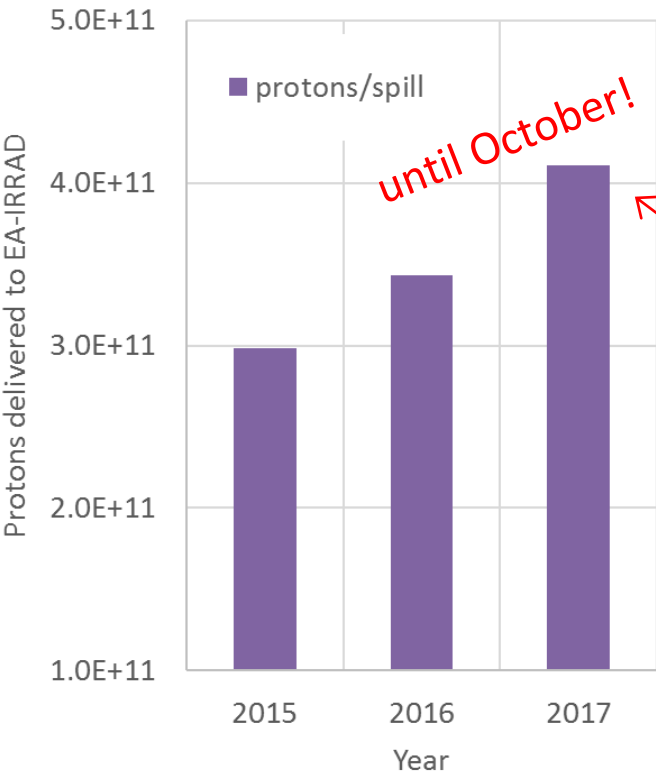


LONGITUDINAL PROFILE

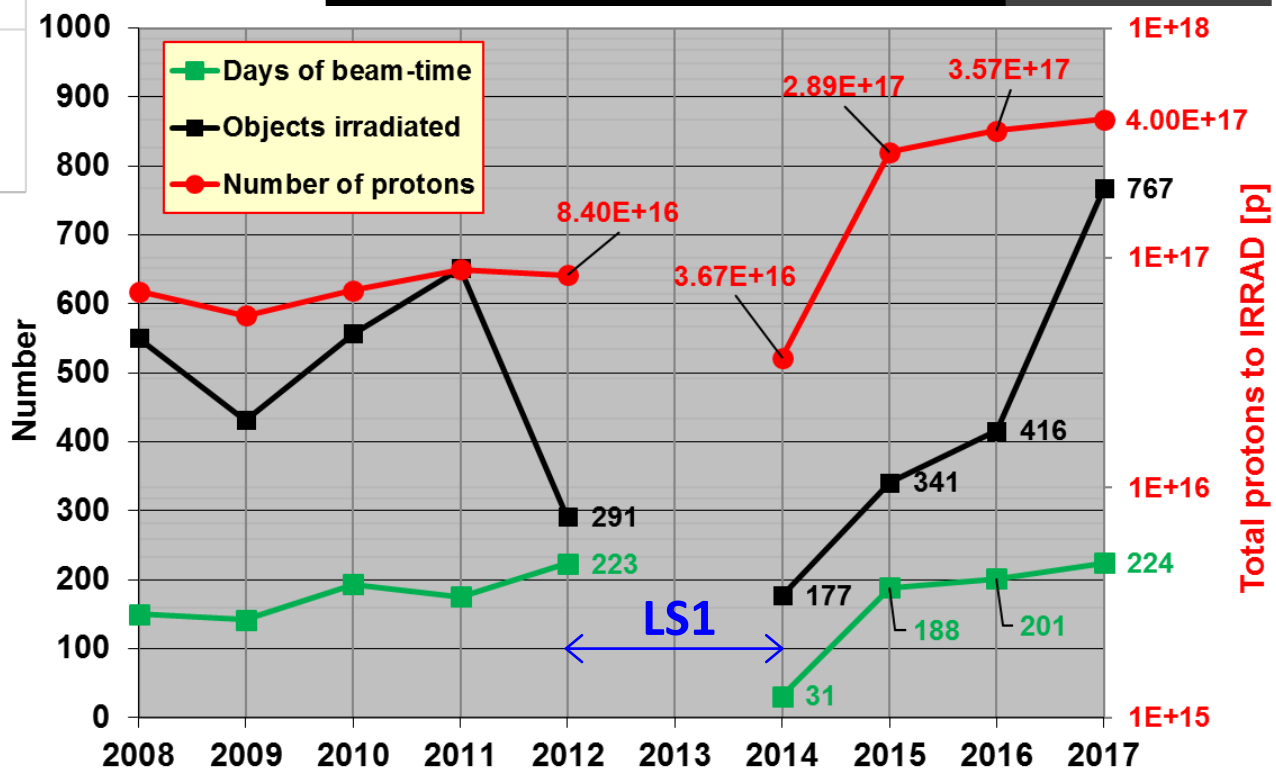
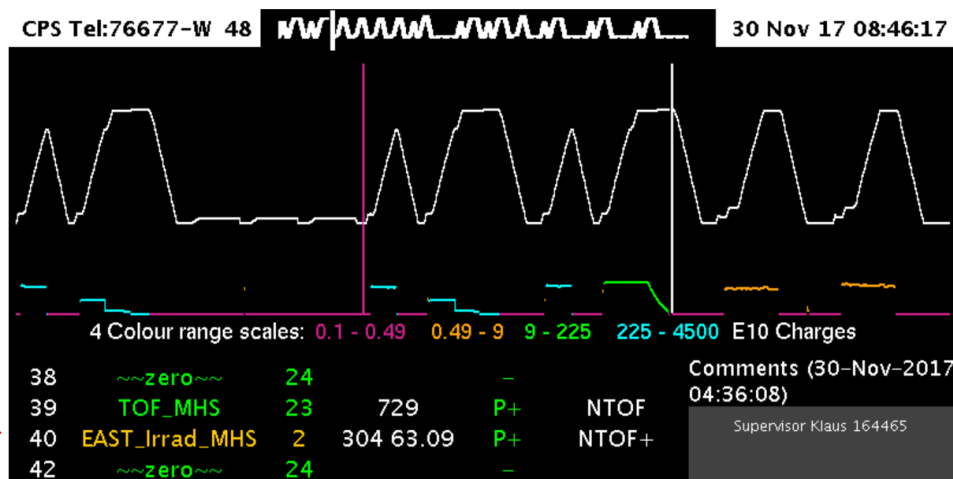


INTENSITIES





Proton spill intensity (average)

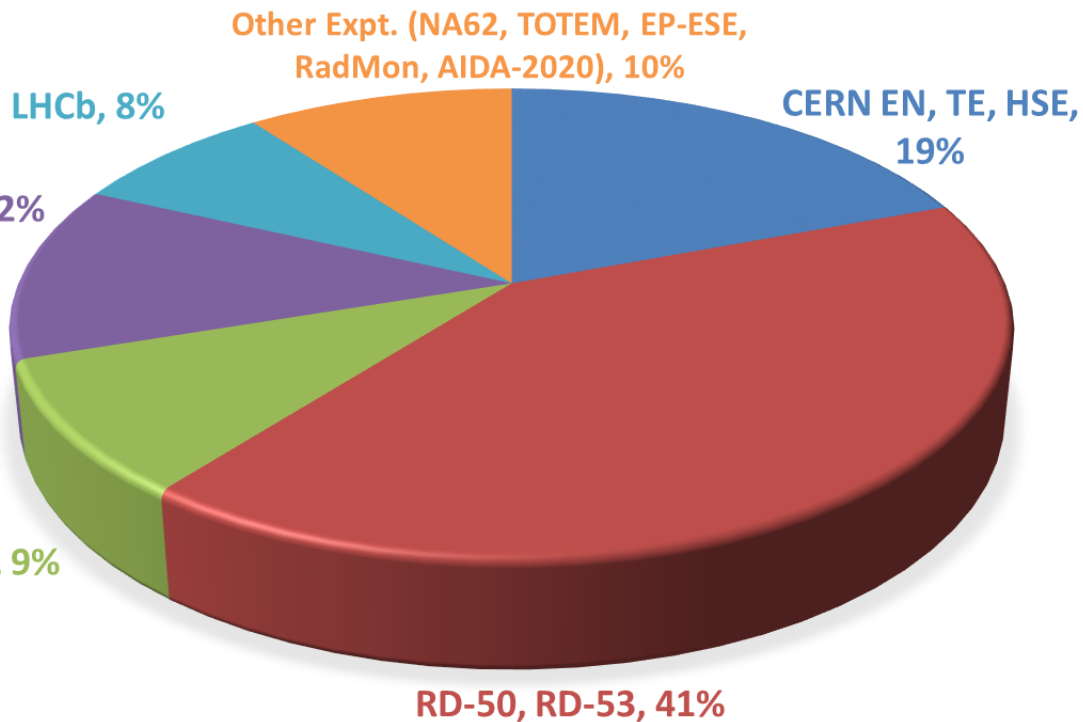


■ Total protons to IRRAD until end of October '17

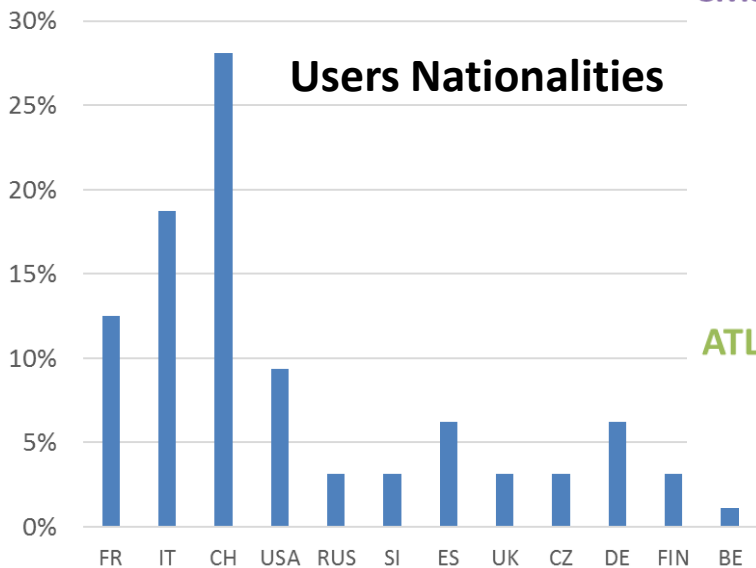
■ Number of objects until mid November 2017

Experiments (registered)	46 (3 postponed)
Users / user teams	32
Institutes	19
Irradiated objects	767(*)
Measured Al-foils dosimeters	504(*)
Max requested fluence	1×10^{17} p/cm ²
RadSHIP organized	13 (+2)

- Low T (< -20°C) experiments
- «scanning» experiments
- cryogenic setup not used
- **12 via Transnational Access Program**



Users Nationalities



(*) exclude samples registered in the last 2w and ongoing experiments

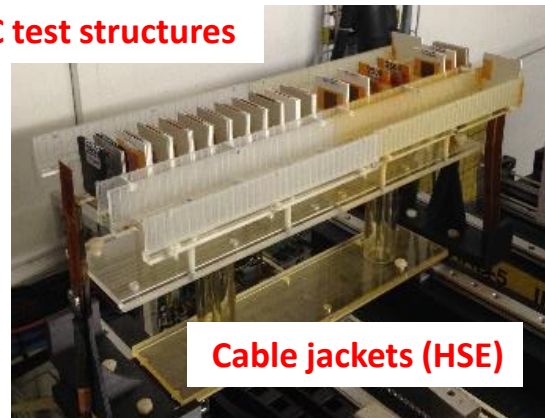
LHCb-UT



ATLAS Itk Pixel modules

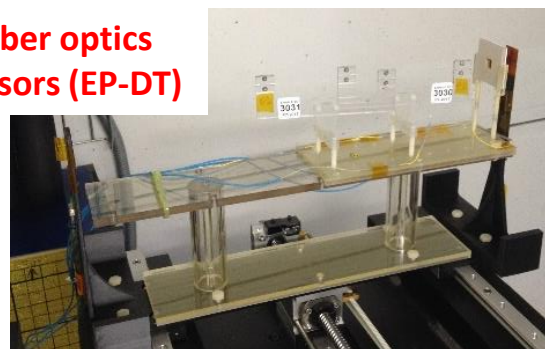


CMS pixel, FCC test structures

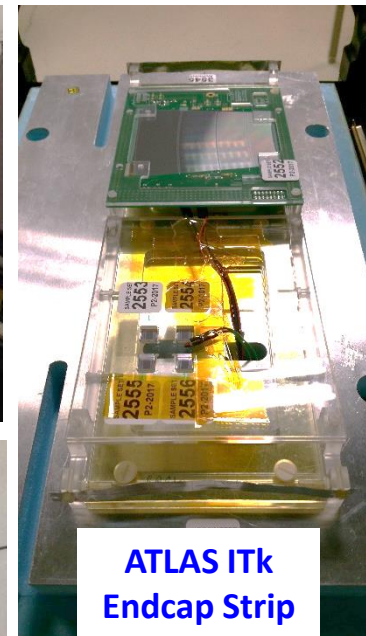


Cable jackets (HSE)

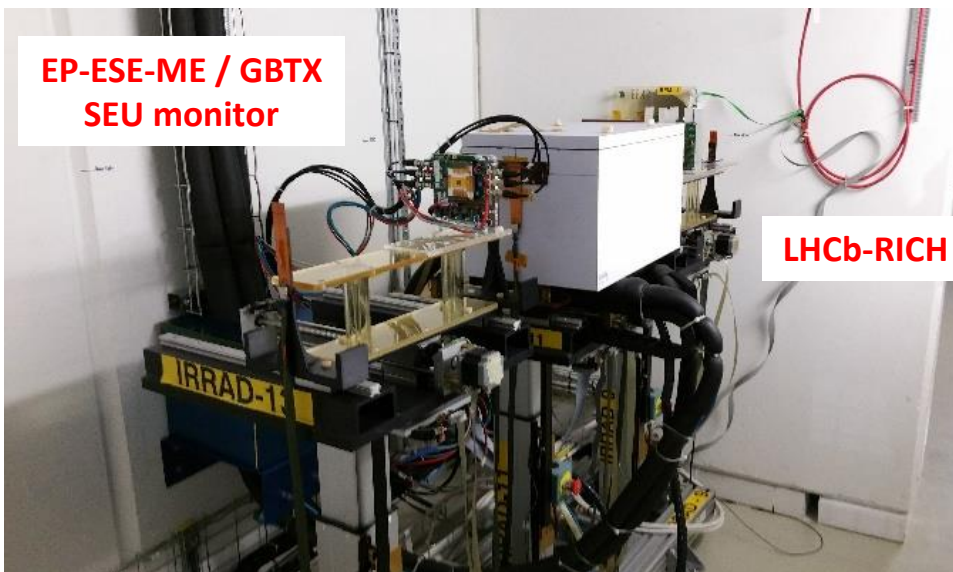
Fiber optics sensors (EP-DT)



ATLAS ITk Endcap Strip



EP-ESE-ME / GBTX SEU monitor

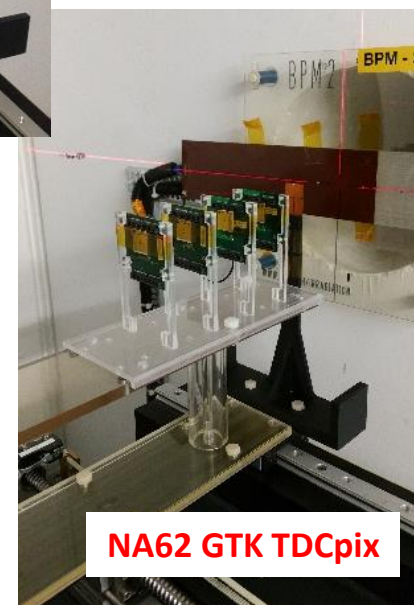


LHCb-RICH (CLARO)



EP-ESE Versatile Link

NA62 GTK TDCpix



DRAFT Injector Accelerator Schedule 2018
preliminary schedule for discussion

RS

	Jan			Feb			Mar						
	1	2	3	4	5	6	7	8	9	10	11	12	13
Mo	1	8	15	22	29	5	12	19	26	5	12	19	28
Tu		Controls Maintenance											
We													
Th													
Fr													
Sa													
Su													

Start LN4 RR
Start LN3 source
start LN2
Start ISOLDE
Start EA, nTOF physics

	Oct			Nov			Dec						
	40	41	42	43	44	45	46	47	48	49	50	51	52
Mo	1	8	15	22	29	5	12	19	26	3	10	17	24
Tu													
We													
Th													
Fr													
Sa													
Su													

End all proton physics
ISO, EA, AD, nTOF, NA,
HiRadMat, AWAKE
End injectors,
NA, EA (06:00)
End Clear

LHC MD4
Ions to LHC
Ions to NA & EA
LHC MD5

End LHC (06:00)

Long Shutdown 2

LHC Pb-Pb ion physics 4 wks

North & East Area Pb ion Physics 4 wks

- **Proton run 2018:**
 - from end of March
 - until middle November
 - + 4w Pb-ion beam
- Xe-ion beam tested on EA-IRRAD from Monday
- interest of EP expt. for Pb-ion beam ?
- run with cryostat (1.9K)

- **YETS 2017/2018:**
 - complete samples shipping, setup post-irradiation experiments, etc.
 - several maintenance works (e.g. replace cold boxes, install remote control chillers, replace damaged BPM/mini-BPM devices, etc.)
 - complete probe-station setup with SPA (FCC+DT)
 - work on proposal of extension of IRRAD service area (with EN/EA for LS2)