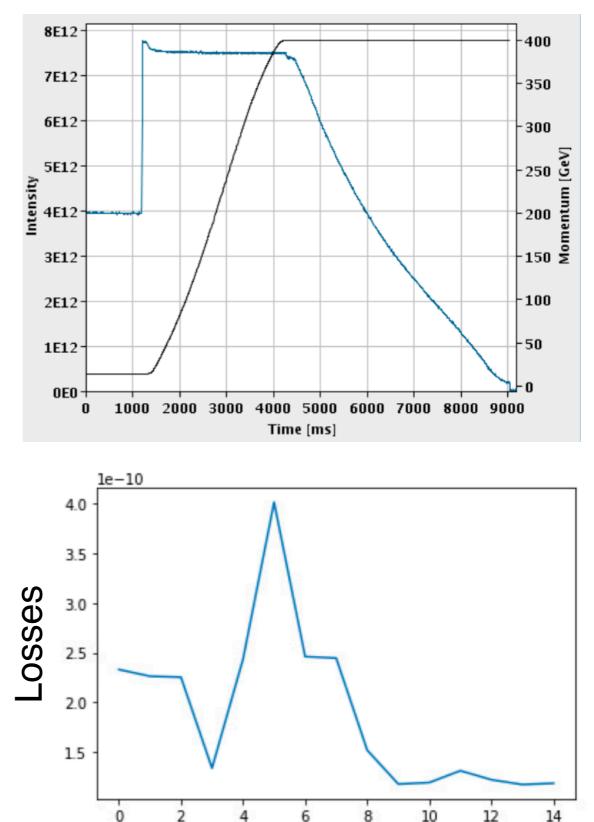
#### **SPS commissioning status**



	3k 1k 20. Feb 22. Feb 24. Feb 26. Feb 28. Feb 2. Mar 4. Mar 6. Mar 8. Mar 10. Mar 12. Mar 16. Mar 18. Mar 20. Mar 22. Mar 24. Mar 26. Mar 28. Mar 30. Mar 1. Apr 3. Apr 5. Apr Higheharts.com
Last Results	BEAM COMMISSIONING
<ul> <li>✓ 06-APR-18 10.46.59.592815 AM ▲ Francesco Maria Velotti Group :MINI SCAN REFERENCES</li> <li>Test: take mini scan references</li> <li>Target: FT BEAM</li> </ul>	121 1 78 TO DO Children Groups
<ul> <li>✓ 06-APR-18 10.46.55.594689 AM ♣ Francesco Maria Velotti Group :ZS ALIGNEMENT Test: ZS alignment Target: FT BEAM</li> </ul>	LHC INDIV
	FT LOW INTENSITY CYCLE
<ul> <li>06-APR-18 10.46.51.747123 AM &amp; Francesco Maria Velotti Group :PARAMETERS TEST Test: steer beam on targets Target: FT BEAM</li> </ul>	LHC PILOT
	FT HIGH INTENSITY CYCLE
<ul> <li>06-APR-18 10.46.50.773876 AM &amp; Francesco Maria Velotti Group :PARAMETERS TEST Test: Test different SX parameters Target: FT BEAM</li> </ul>	SPS APERTURE
	AWAKE
	LHC HIGH INTENSITY
<ul> <li>06-APR-18 10.44.59.131013 AM S Francesco Maria Velotti Group :CALIBRATION</li> <li>Test: calibrate with bump</li> <li>Target: LHC INDIV</li> </ul>	BEAM BASED ALIGNEMENT
	COAST
+ Show more	LHCIONS
	SFT ION
	BIEQUIPMENT

### **SFTPRO**

- → Last days optimisation brought the transmission to ~98%!
- → A few changes in the regulation of the QF to try to optimise the spill frequency content still ongoing...
  - Show the tracking seems better than at the beginning of the year more similar to last year
  - → At first glance, the 50 Hz seems to be reduced too...
- → ZS aligned bring losses to be a bit lower than last year
  - ➡ Diffuser tested as well very promising first results (losses down of about 15%)!
  - → Very preliminary automatic ZS scan tested with girder (1 degree of freedom) => promising results here too!

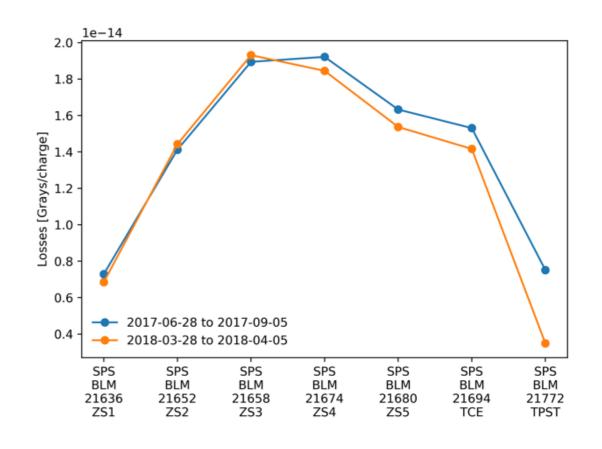


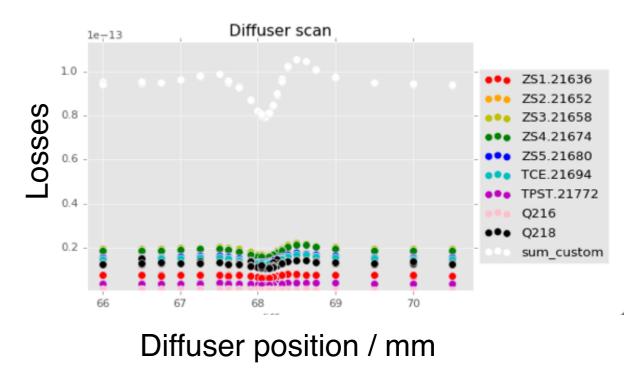
Iterations

# CERN

## <u>SFTPRO</u>

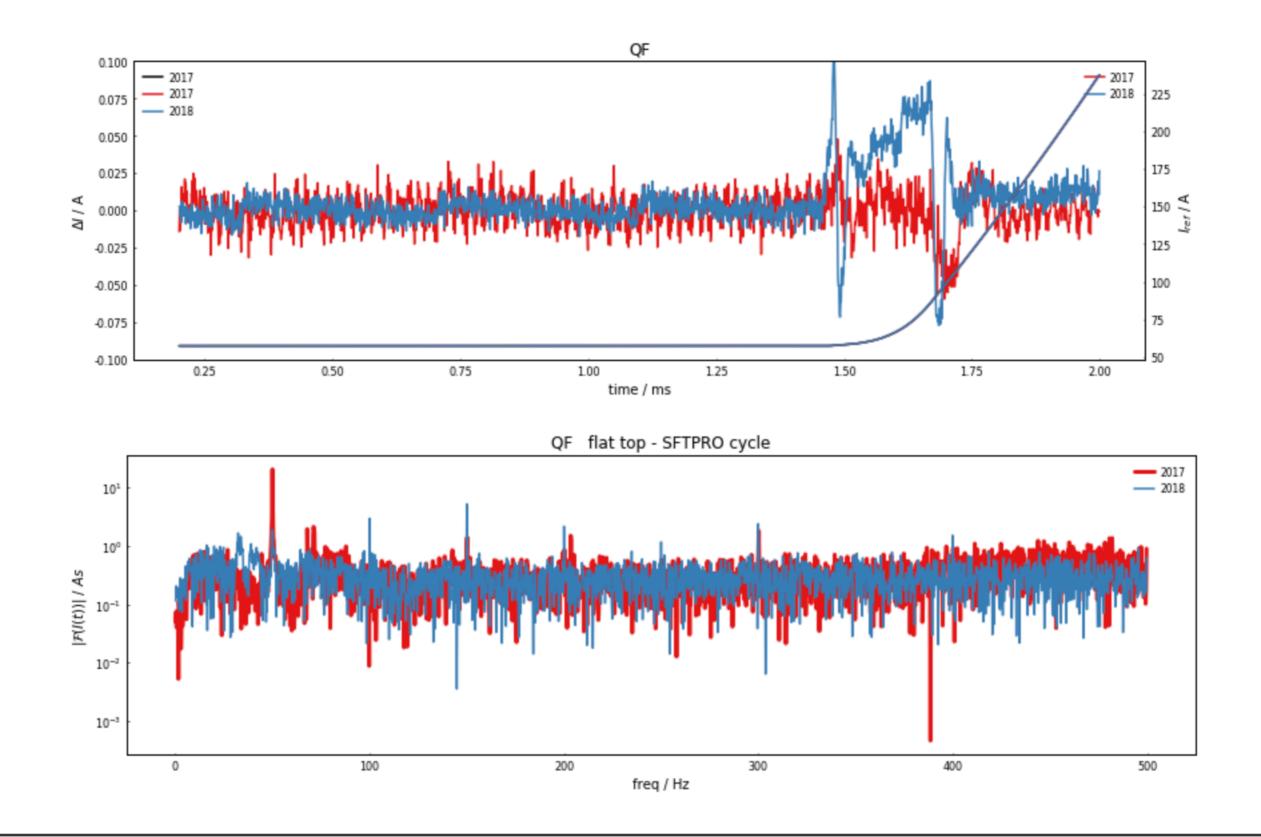
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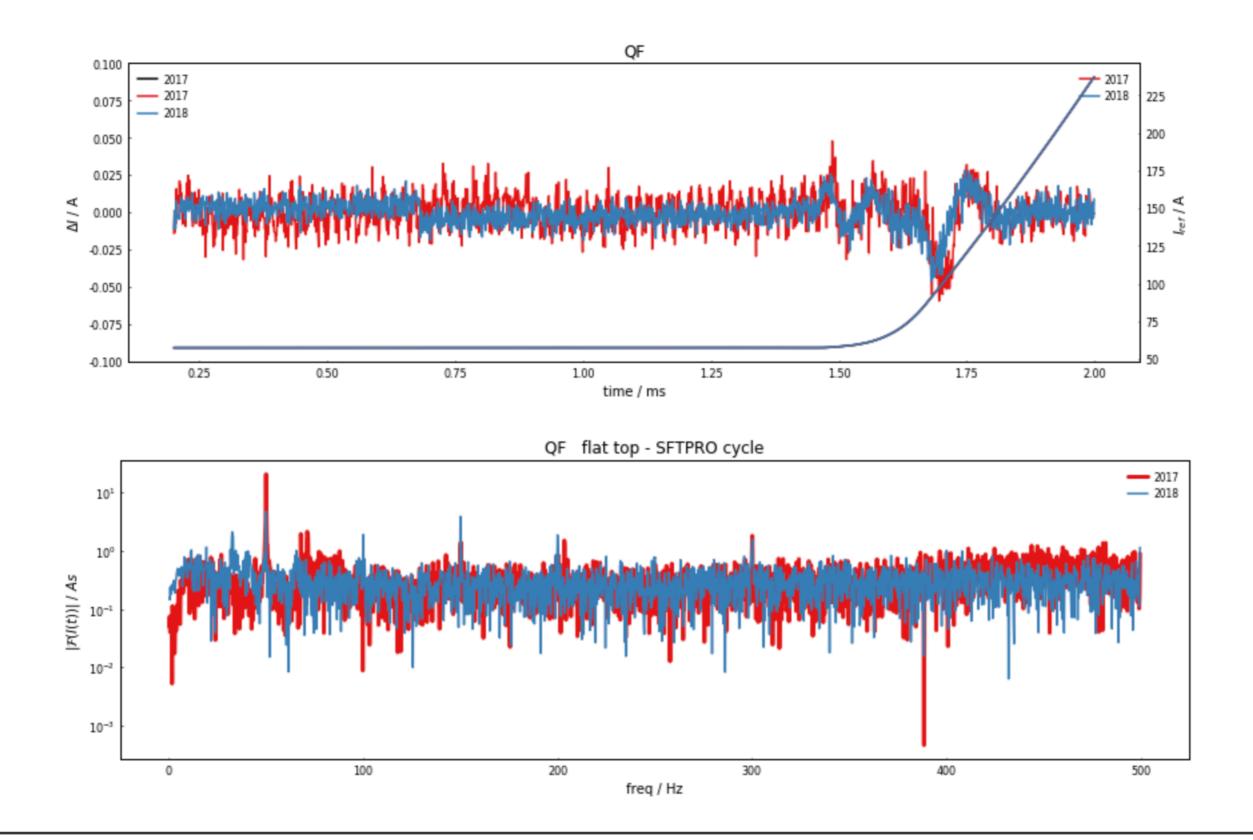
### <u>SFTPRO</u>





### **SFTPRO**





### LHC beams



- → Cycles being setting up:
  - → PILOT => being heavily used by LHC for their setting up
  - → INDIV long cycle
  - → LHC25NS (standard) 3 batches at flat top
  - $\mapsto$  HiRadMat being set up in parallel with LHC25NS
  - → BCMS on INDIV taken for now for tune, orbit and chroma setting up

