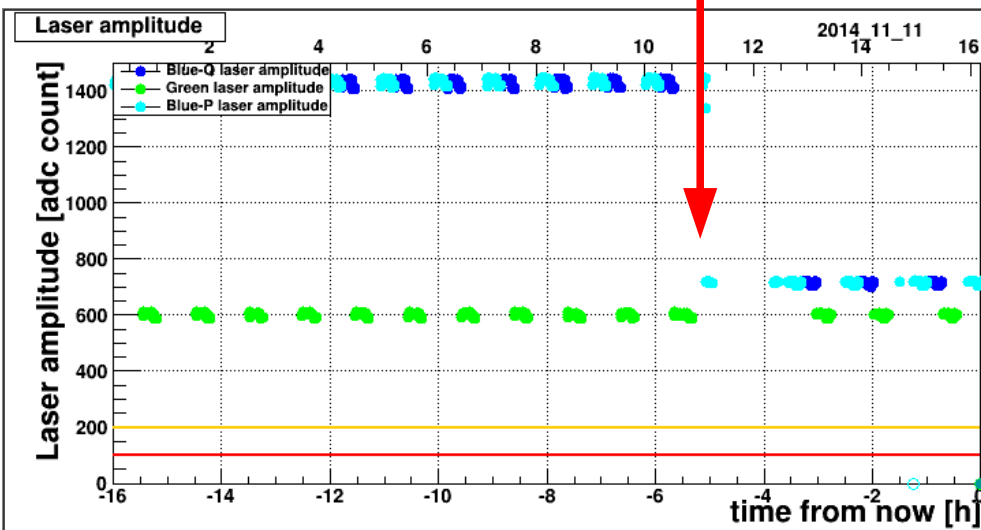


Some results on monitoring data taken during November-CRAFT

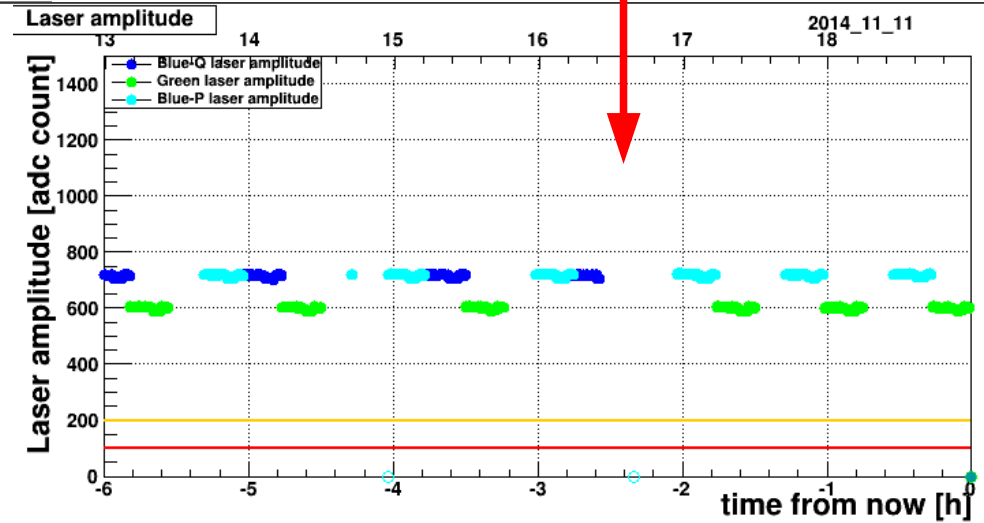
- DP2-2 Online
 - Good performances, but

Amplitude too high up to Nov 11-noon

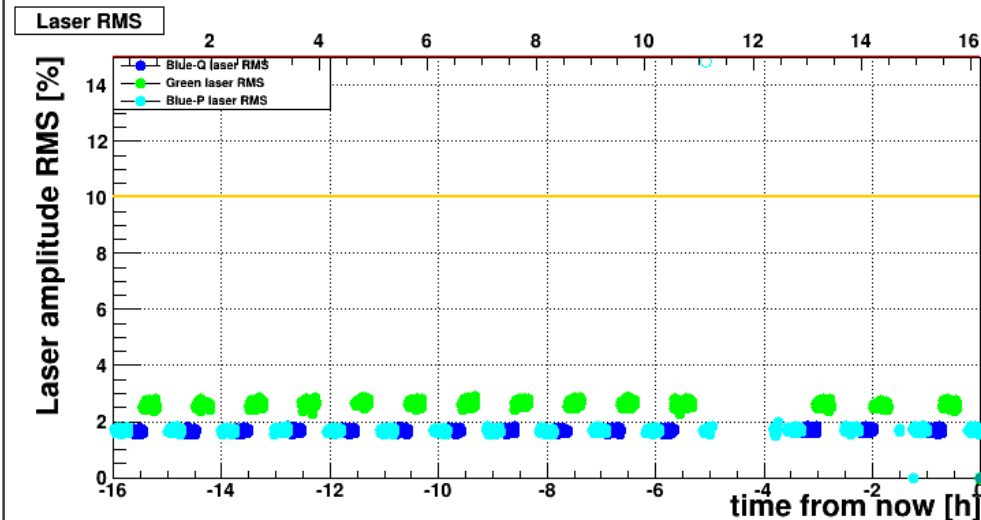
Photonics and Quantronics in the sequence up to 4PM but Quantronix=Photonics... to be understood



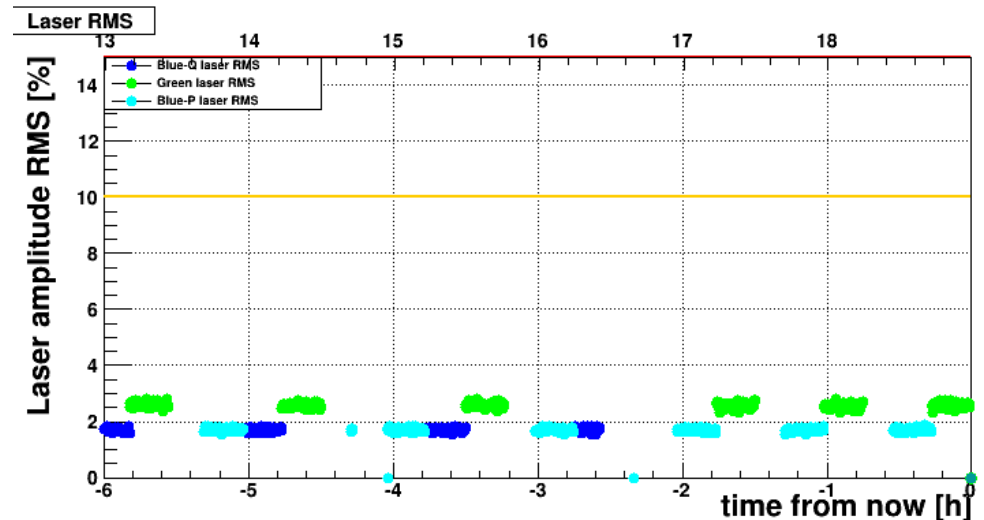
Now is Tue Nov 11 16:11:51 2014



Now is Tue Nov 11 18:59:29 2014

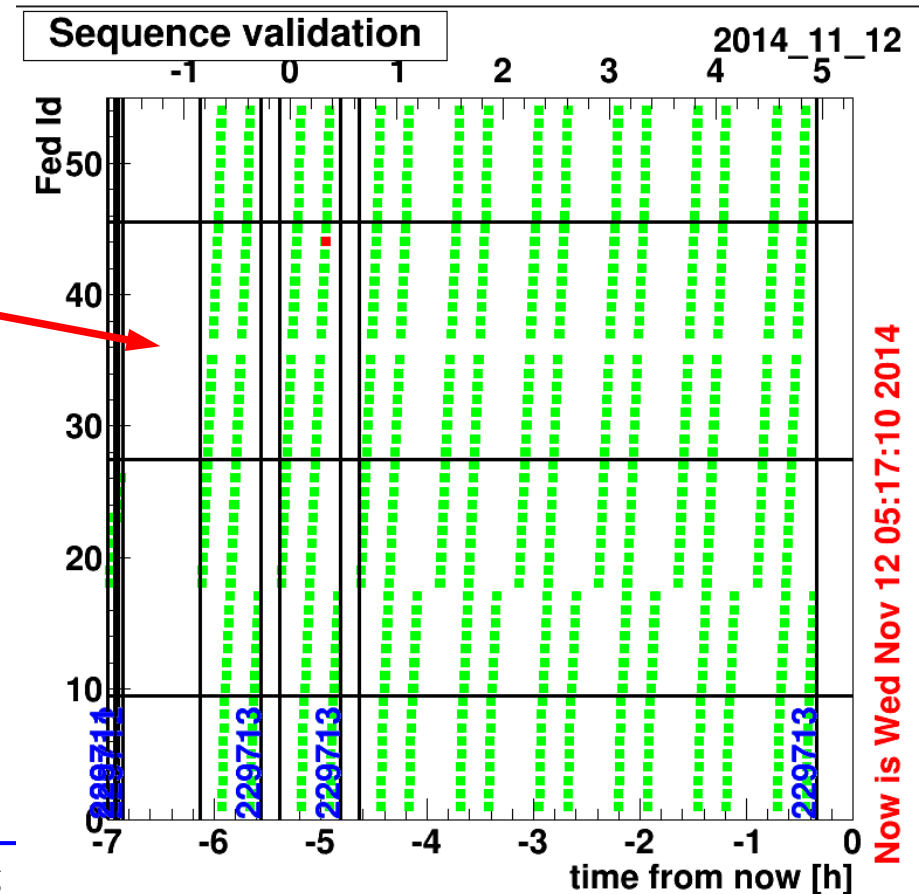


Now is Tue Nov 11 16:11:51 2014



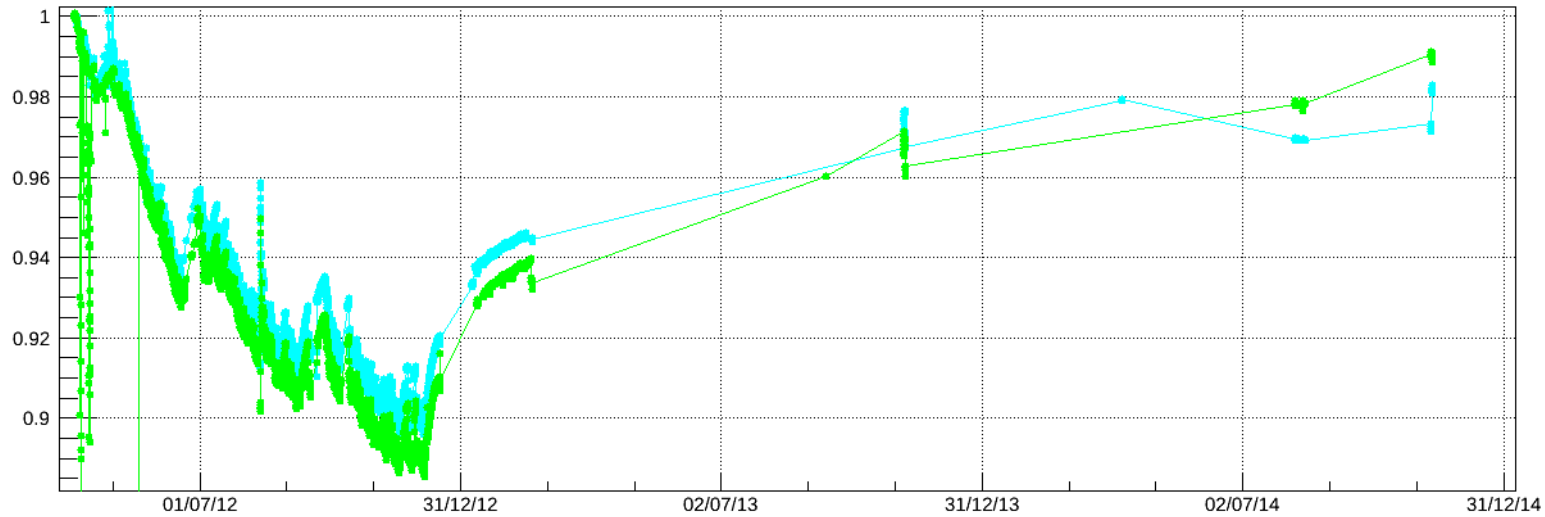
Now is Tue Nov 11 18:59:29 2014

- **Physics data in calibration stream**
 - **Not foreseen in various analysis programs**
 - ▶ **Data not usable**
 - **Corrected at run 229704**
- **Very few runs really useful**
 - **But enough to make a monitoring point**
 - **EB+9 missing**

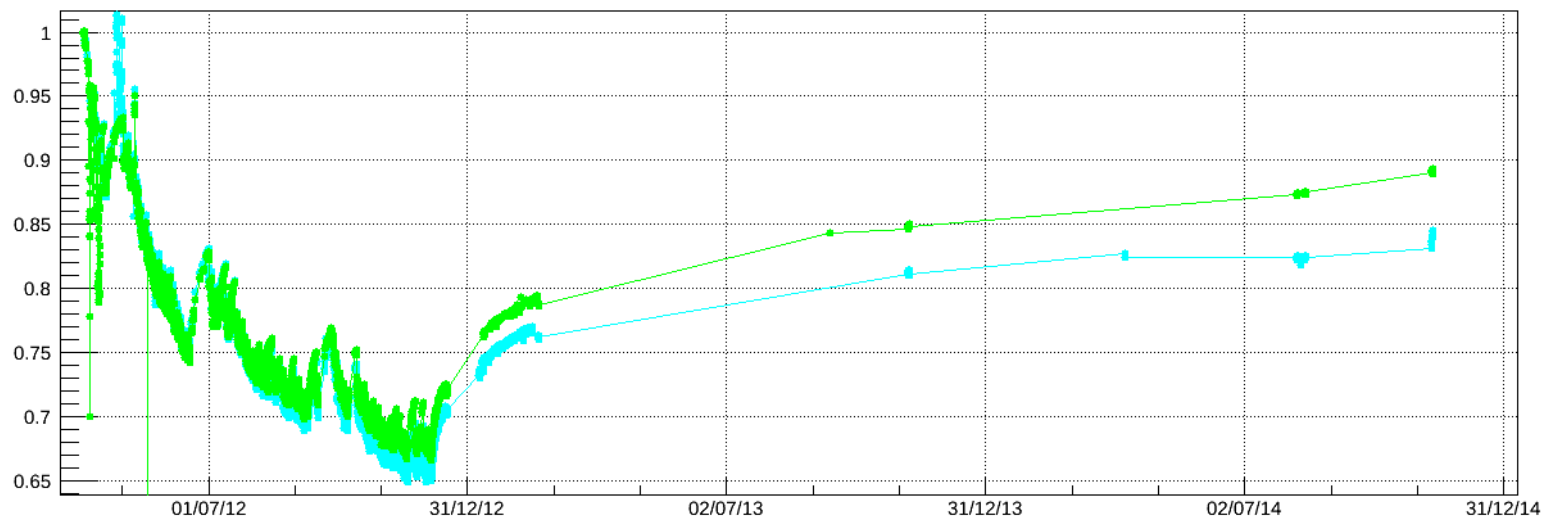


- Typical histories

FED654 : harness15/pnAB vs t

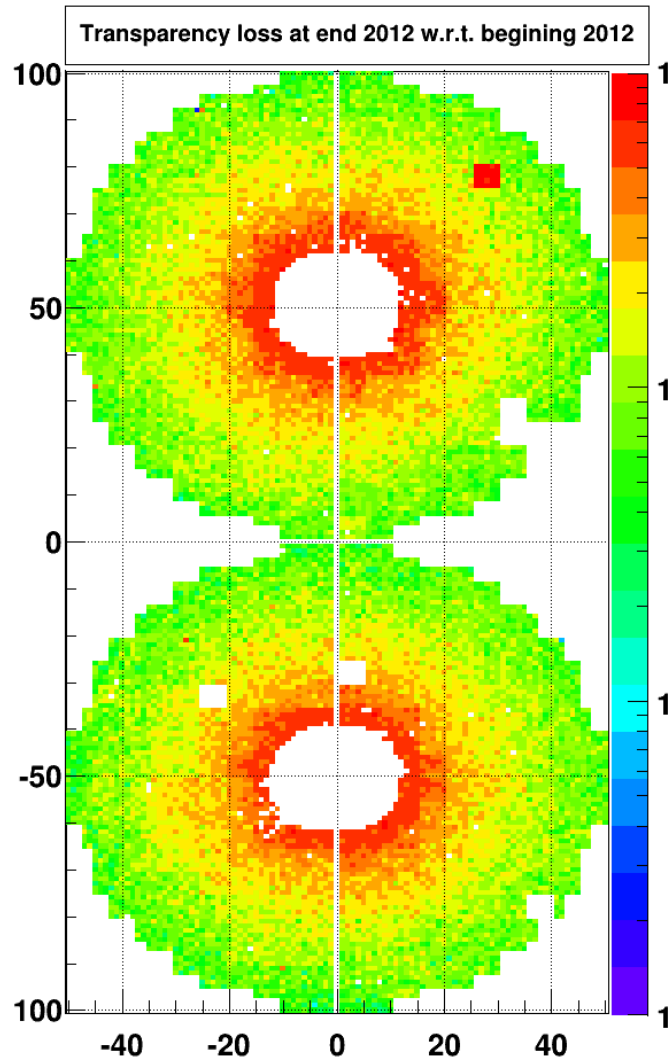


FED654 : harness17/pnAB vs t

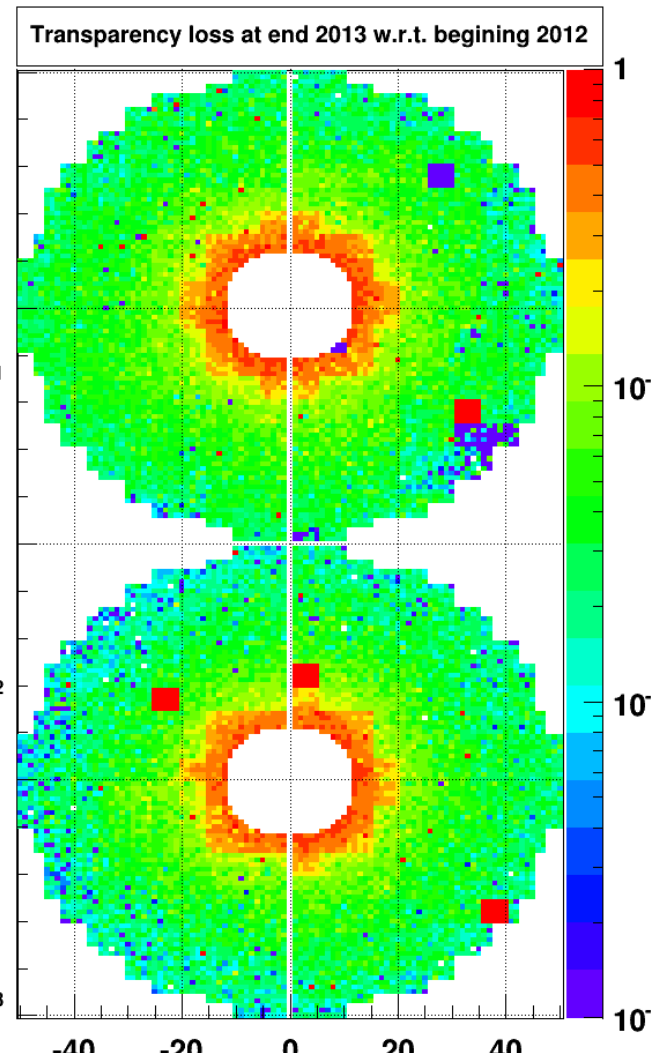


- **EE transparency loss (log scale)**

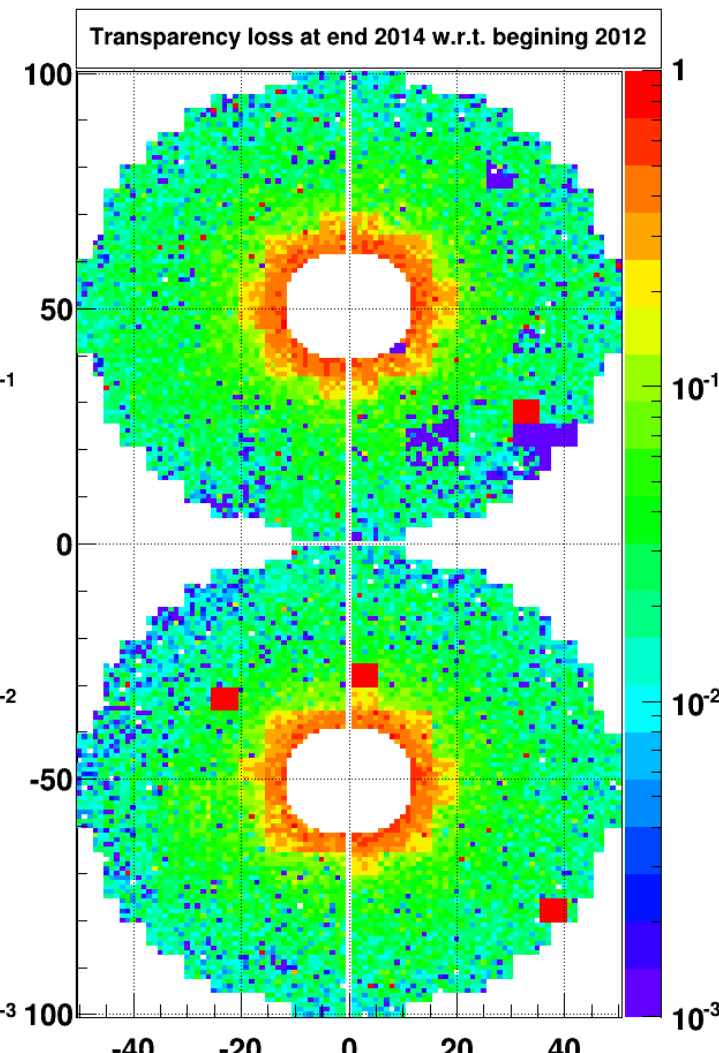
End 2012



End 2013

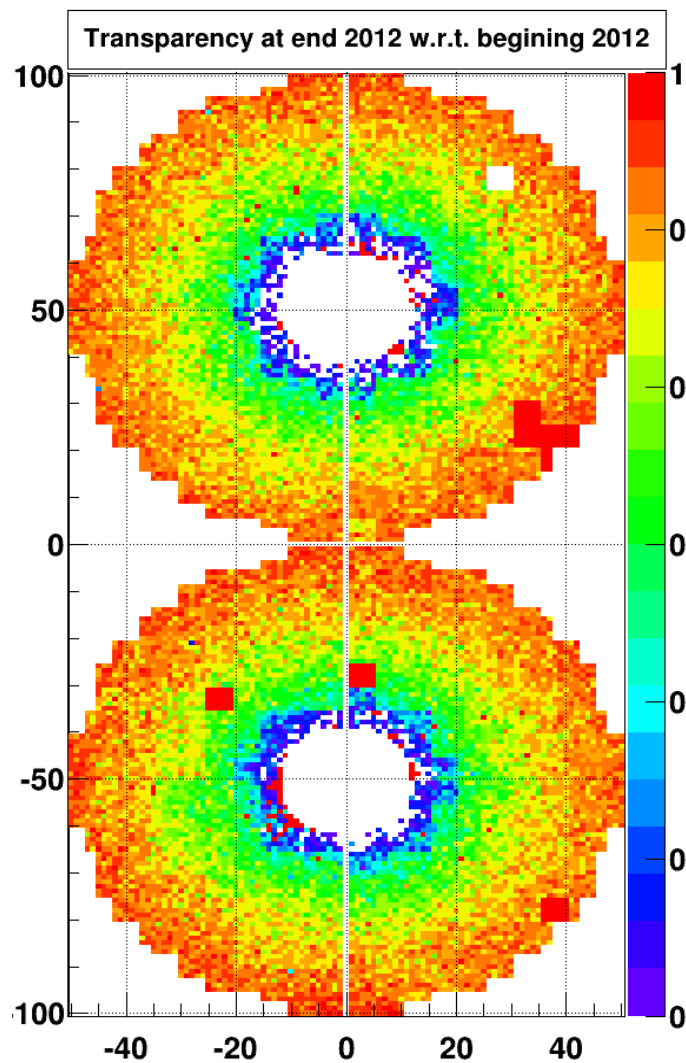


End 2014

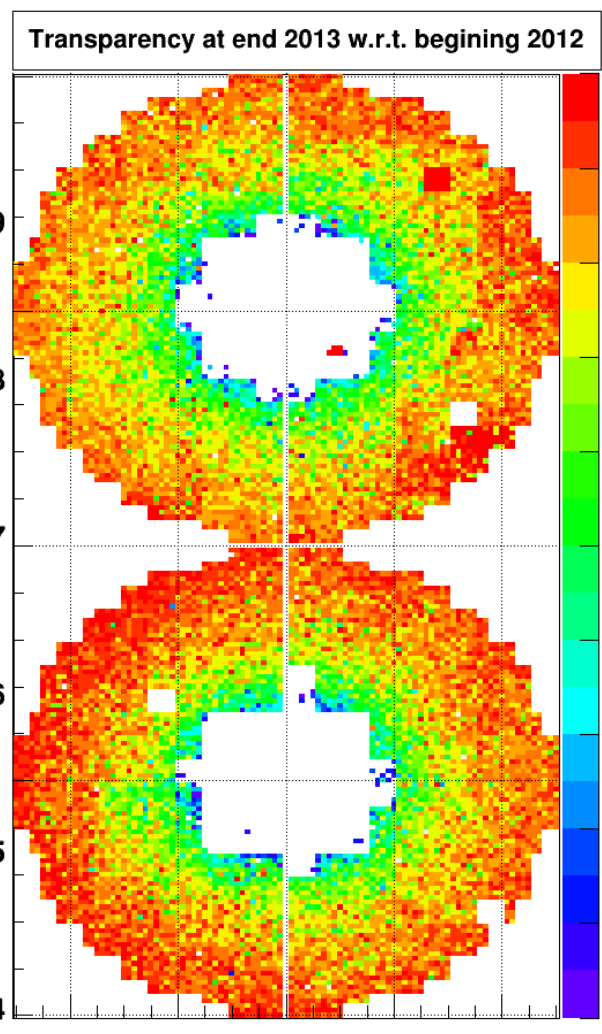


- EE transparency

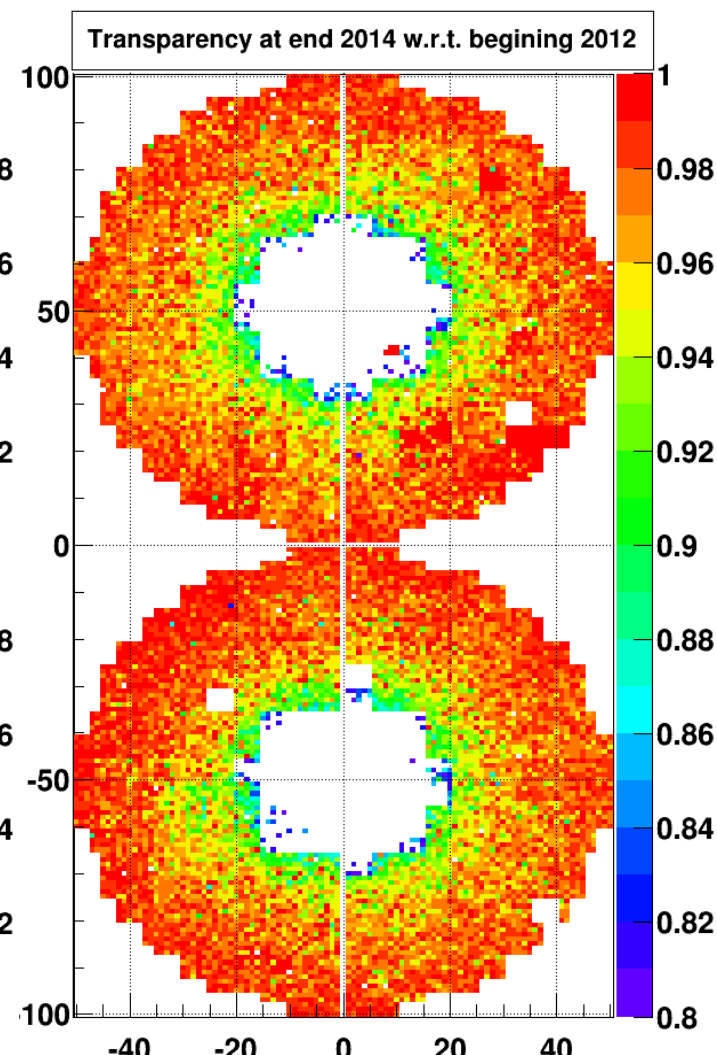
End 2012



End 2013

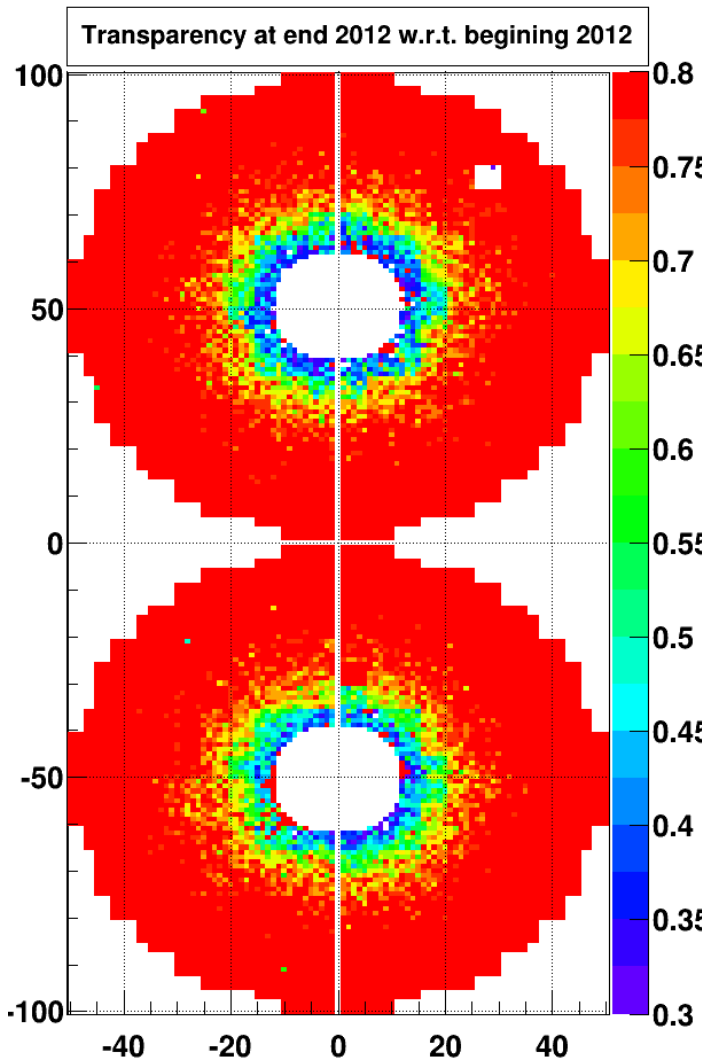


End 2014

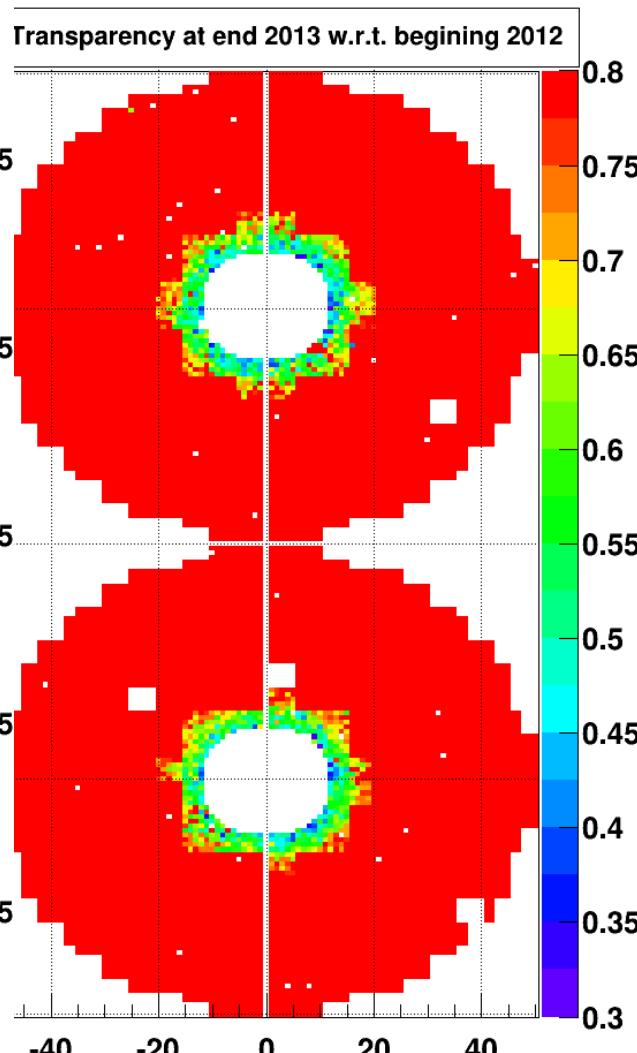


- **EE transparency – zoom on central region**

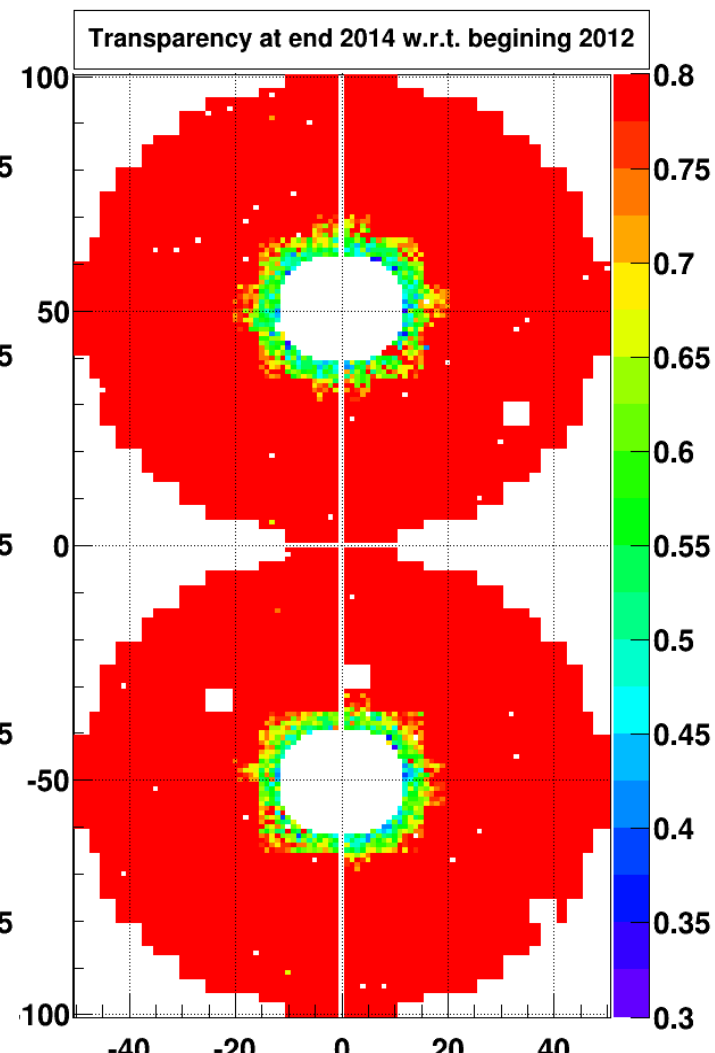
End 2012



End 2013

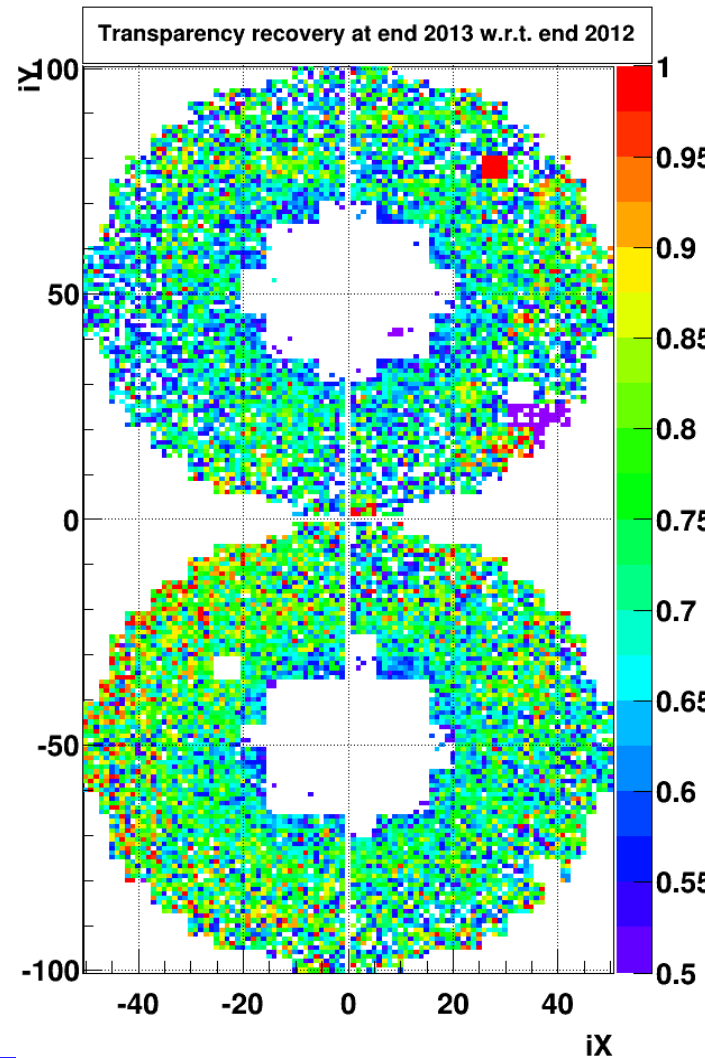


End 2014

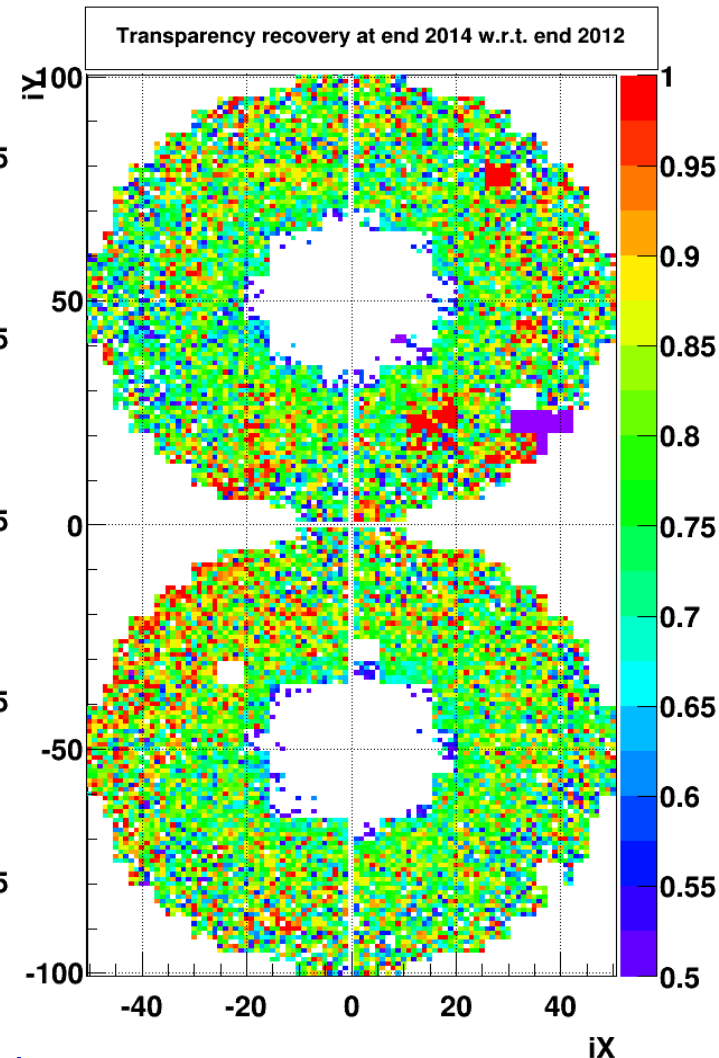


- **EE fraction of recovery**

End 2013



End 2014

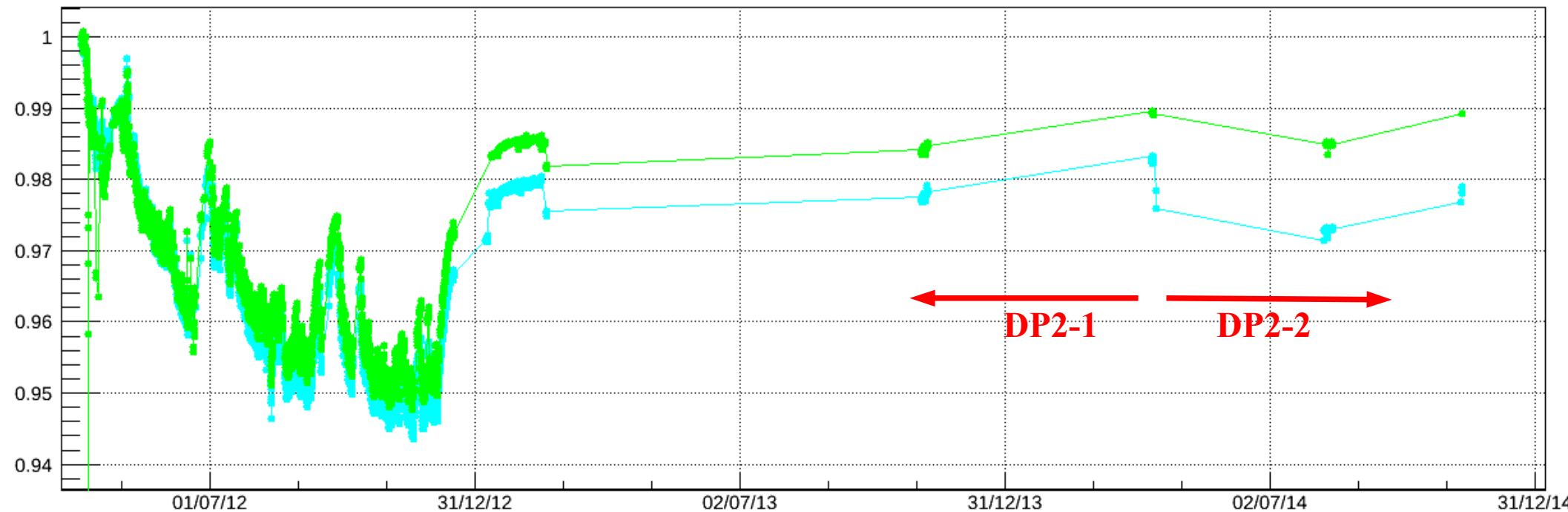


- **Typical history**

- **5/1000 step at DP2-1/DP2-2 swap**

- ▶ **Hard to make a precise recovery study**
 - ▶ **Need to be understood or calibrated**
 - ▶ **Take sequence with both lasers (trig DP2-1 with Quantronix trigger)**

harness08/pnAB vs t

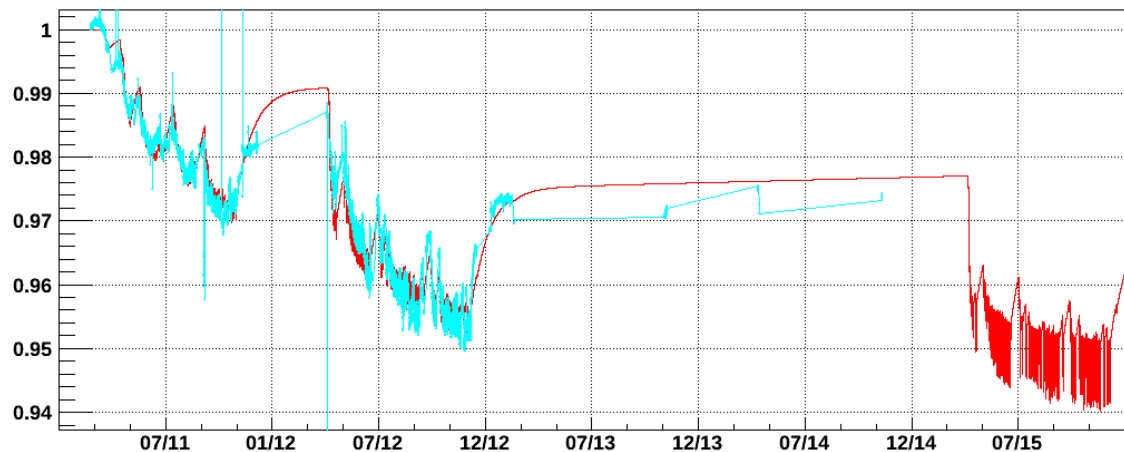


- **Some useful data taken during craft**
 - **Whole detector running except EB+9**
- **EE still slowly recovering**
 - **Big fraction of non recovering defaults at high eta**
- **Need to understand/correct/calibrate DP2-1/DP2-2 effect**
- **At some point, we will need the whole detector in the sequence !**
 - **Generate correction factors for run 2**

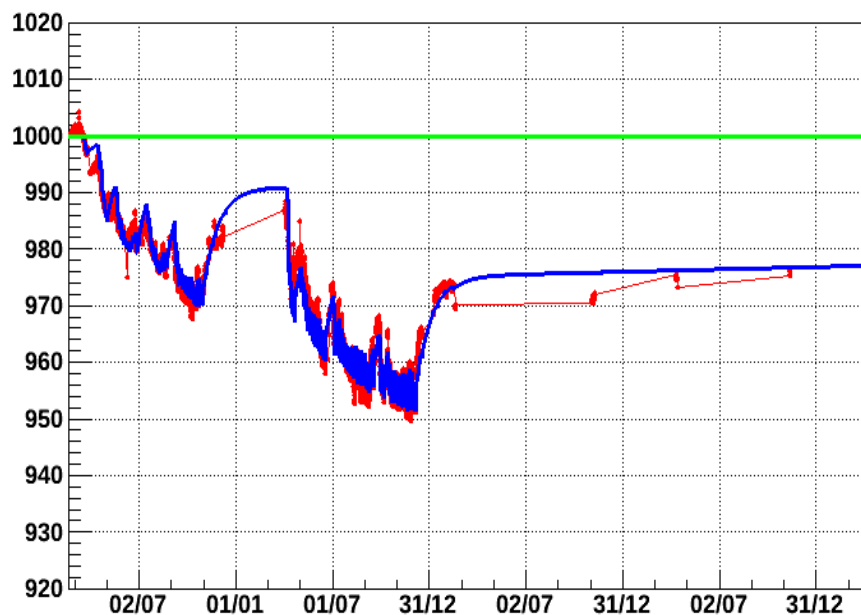
- **Fit model and extrapolate :**

- **EB : FED 620-01**

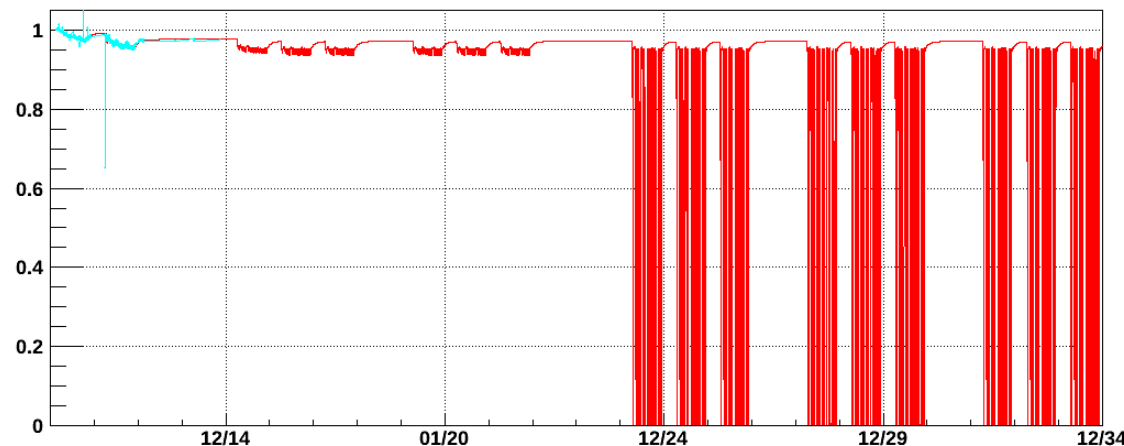
harness_1



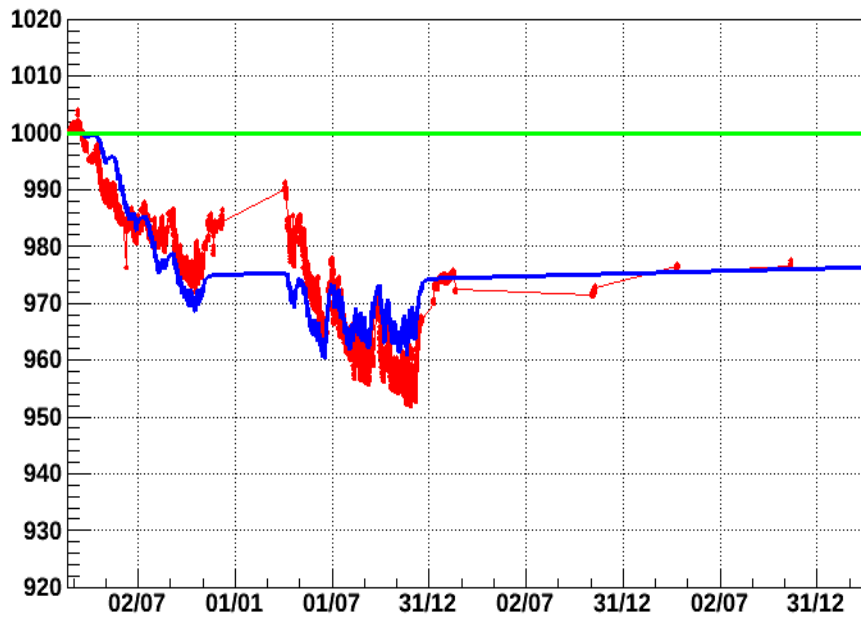
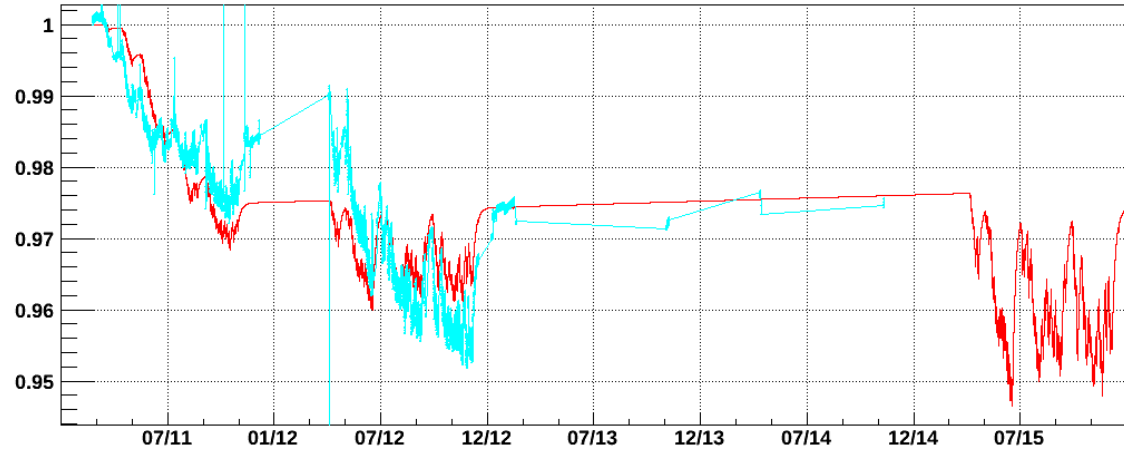
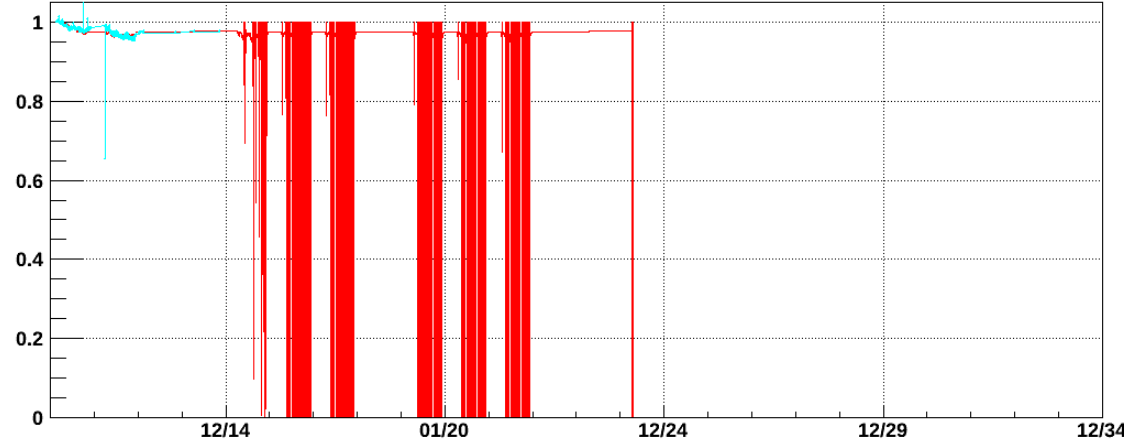
Fed 620 : Irradiation fit on harness 01



harness_1



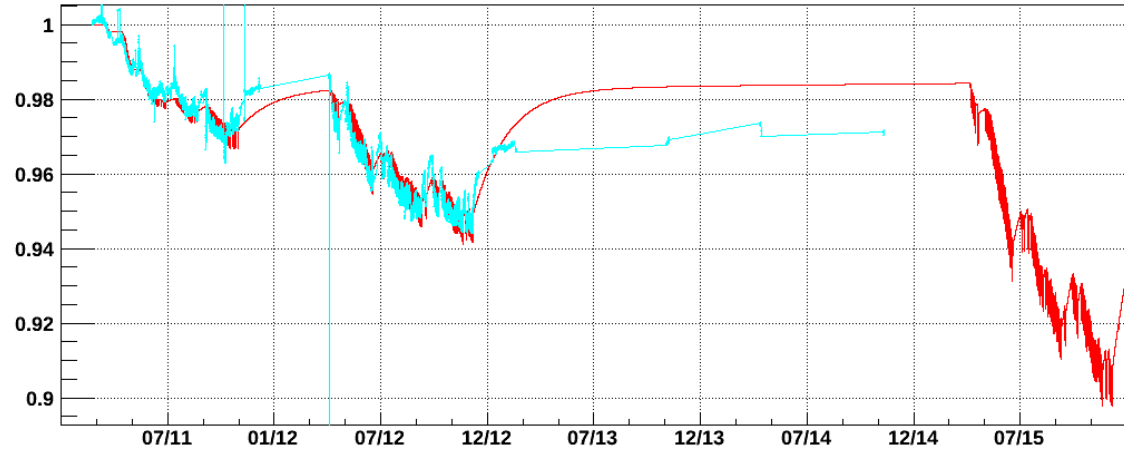
- **Fit model and extrapolate :**
 - **EB : FED 620-02**

Fed 620 : Irradiation fit on harness 02

harness_2

harness_2


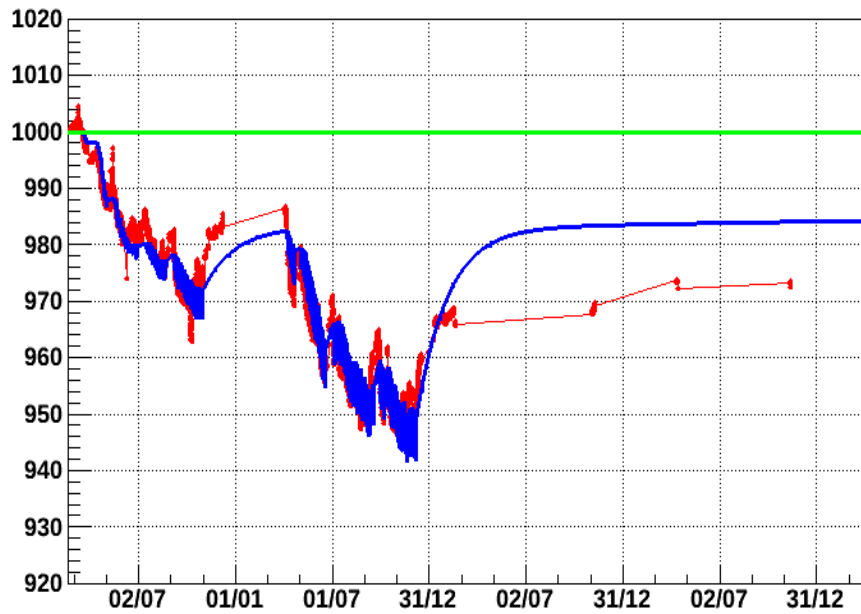
- **Fit model and extrapolate :**

- **EB : FED 620-03**

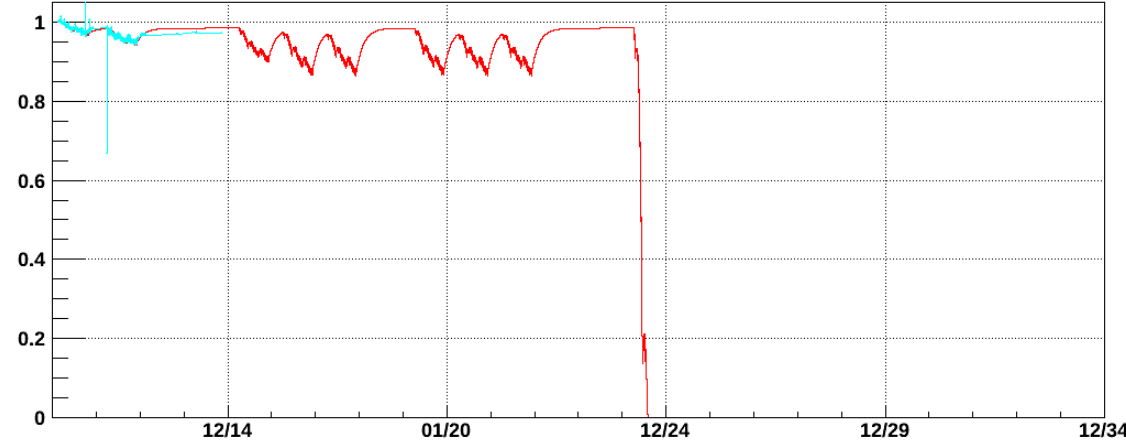
harness_3



Fed 620 : Irradiation fit on harness 03

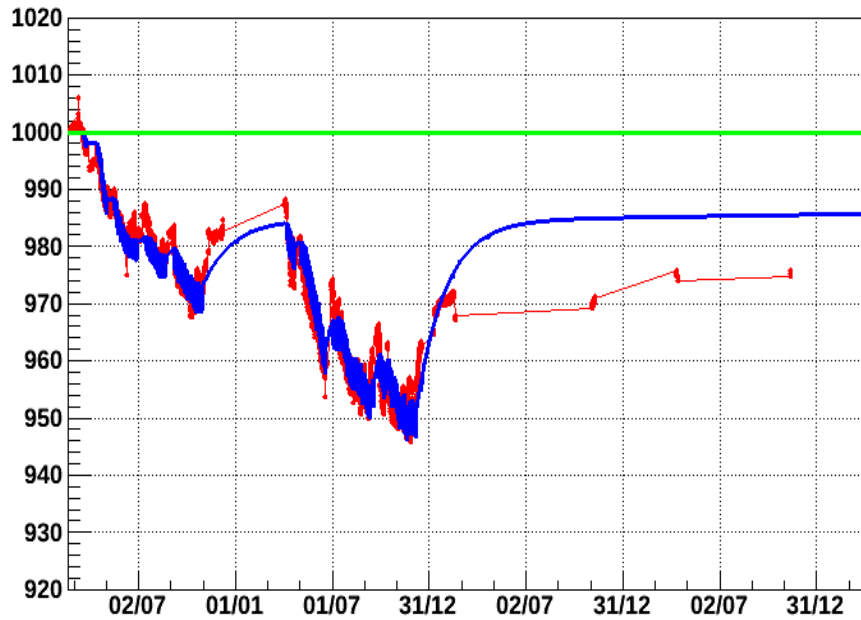


harness_3

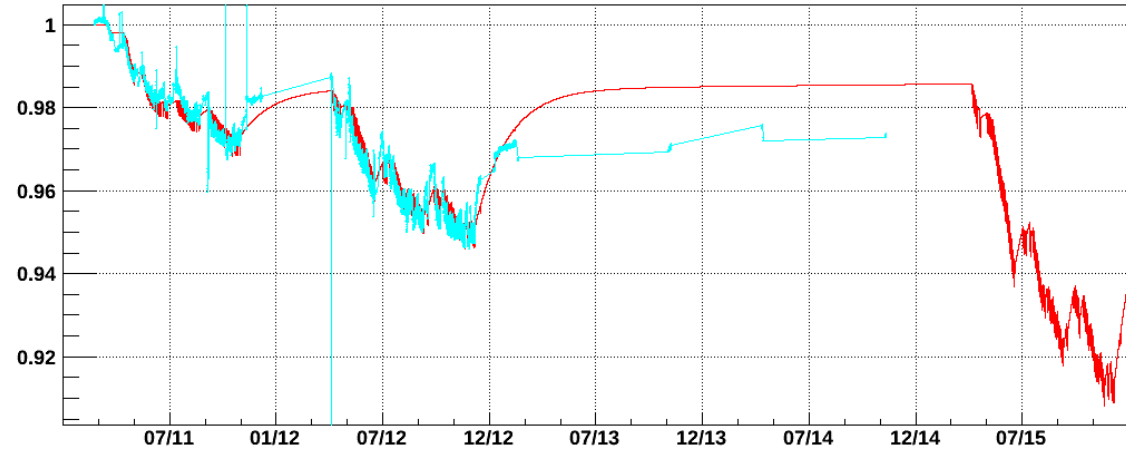


- Fit model and extrapolate :
 - EB : FED 620-04

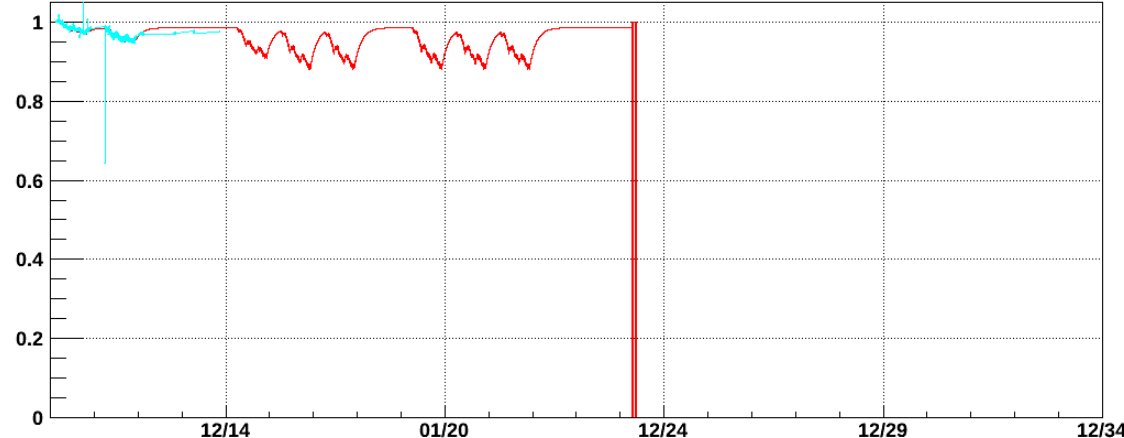
Fed 620 : Irradiation fit on harness 04



harness_4

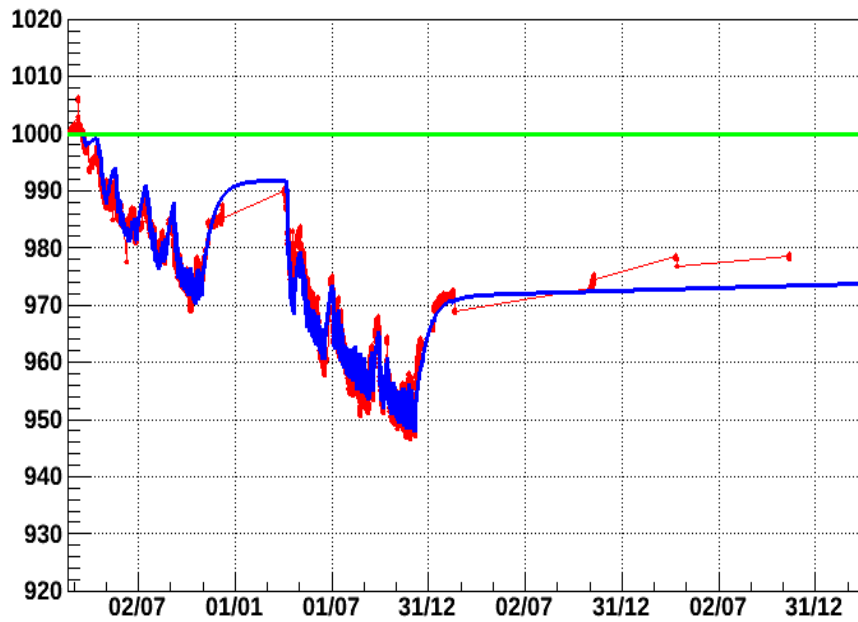


harness_4

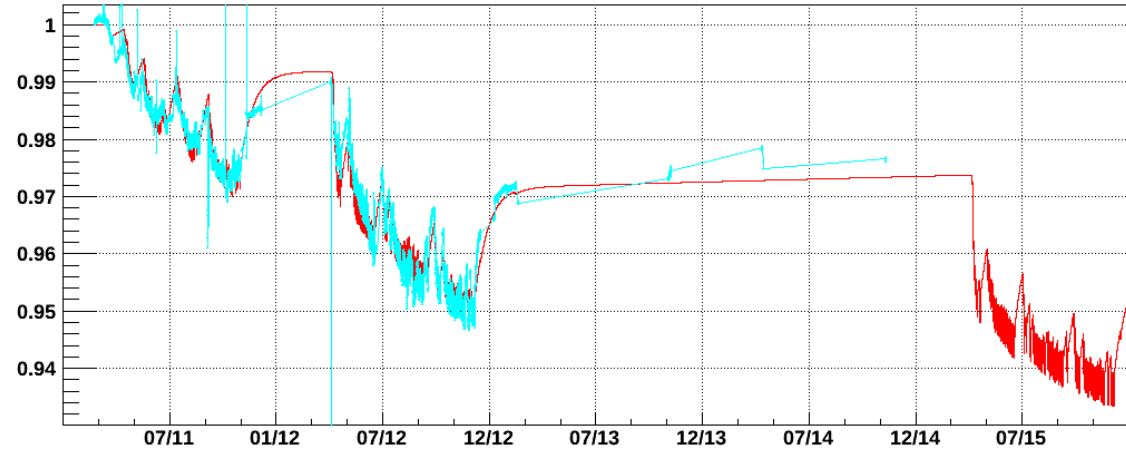


- Fit model and extrapolate :
 - EB : FED 620-05

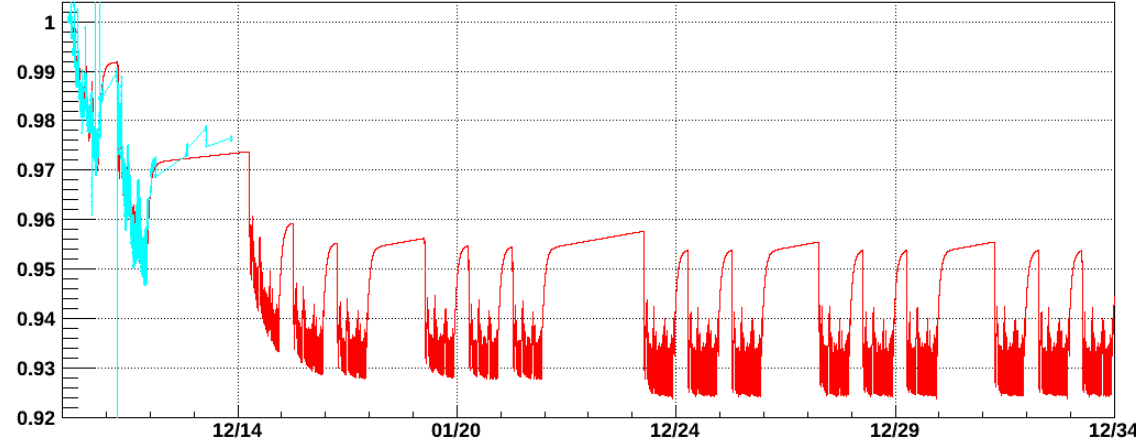
Fed 620 : Irradiation fit on harness 05



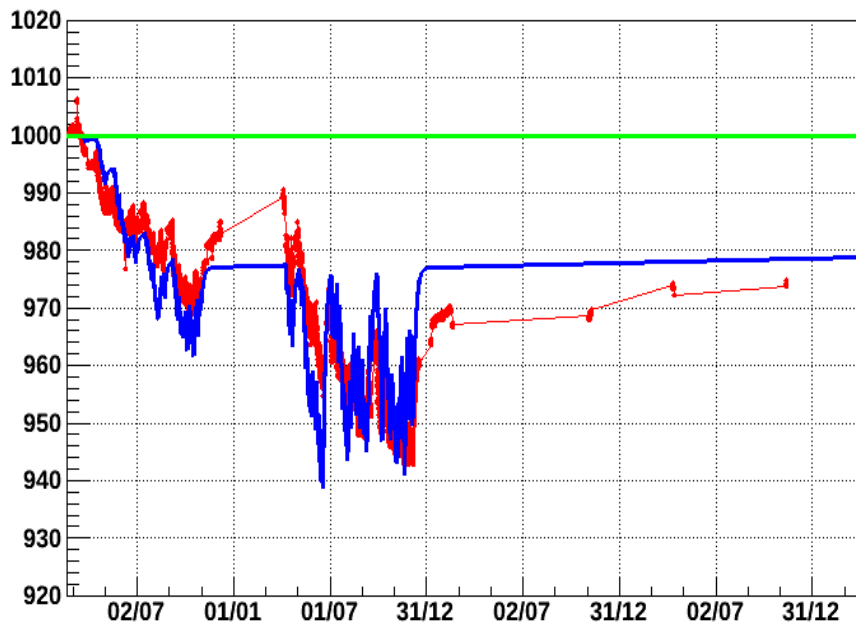
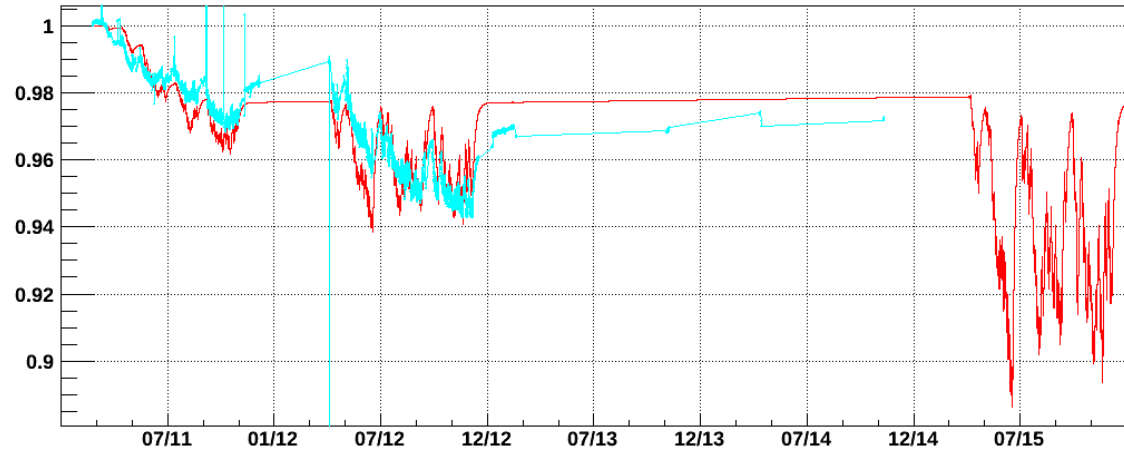
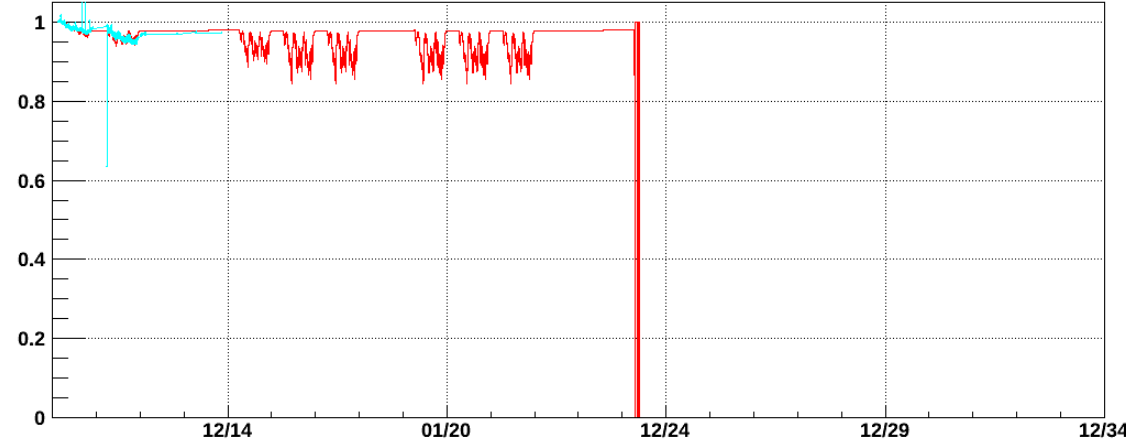
harness_5



harness_5



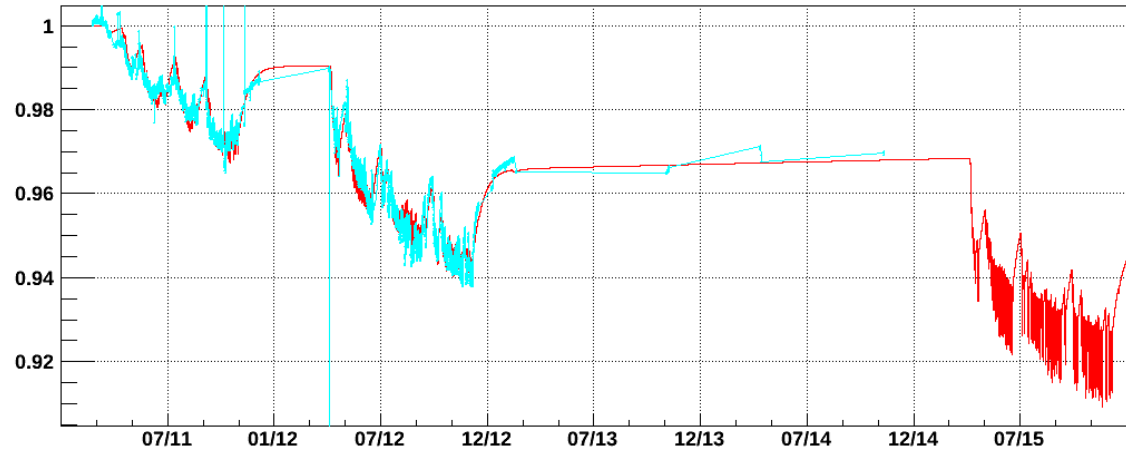
- **Fit model and extrapolate :**
 - **EB : FED 620-06**

Fed 620 : Irradiation fit on harness 06

harness_6

harness_6


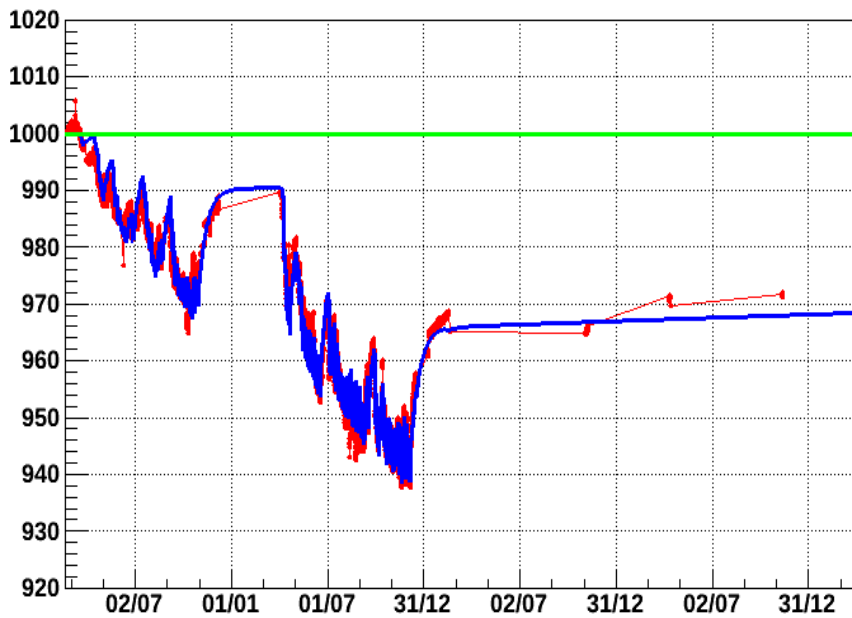
- Fit model and extrapolate :

- EB : FED 620-07

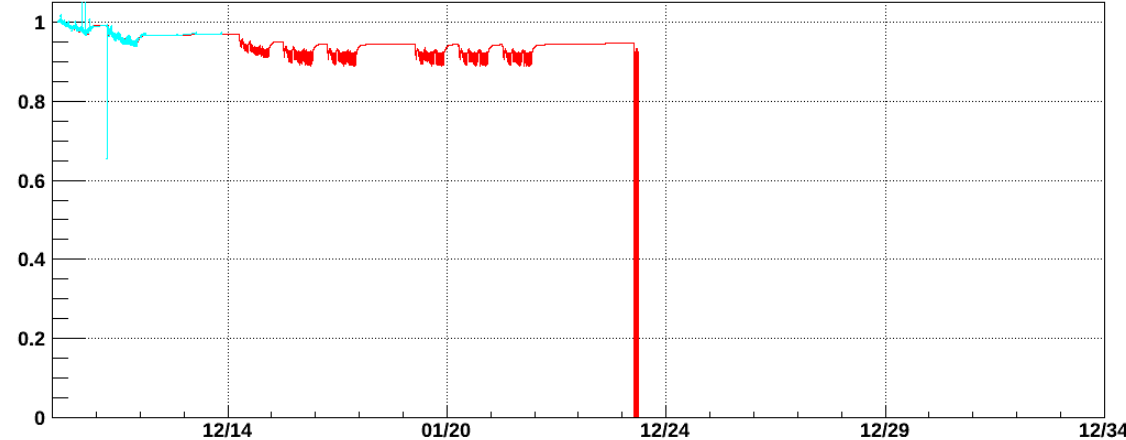
harness_7



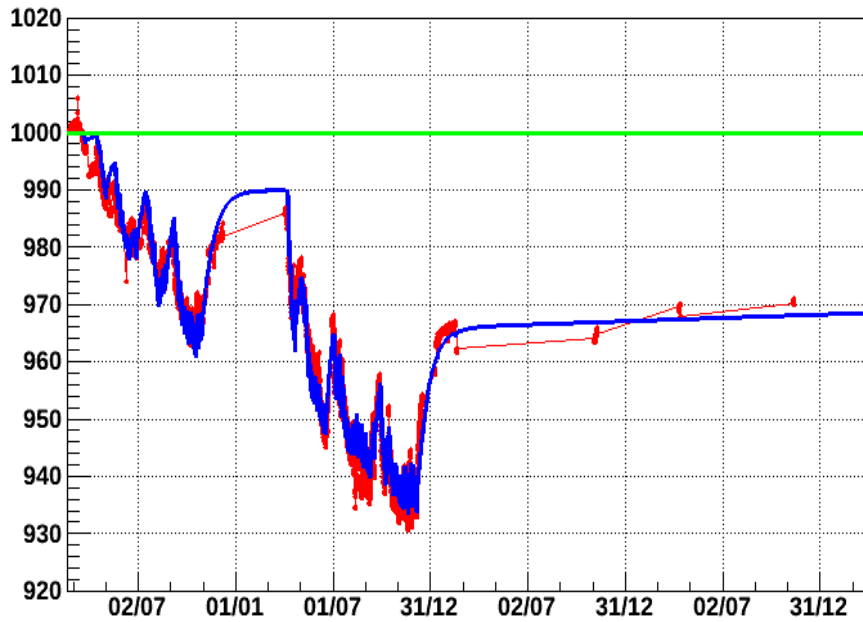
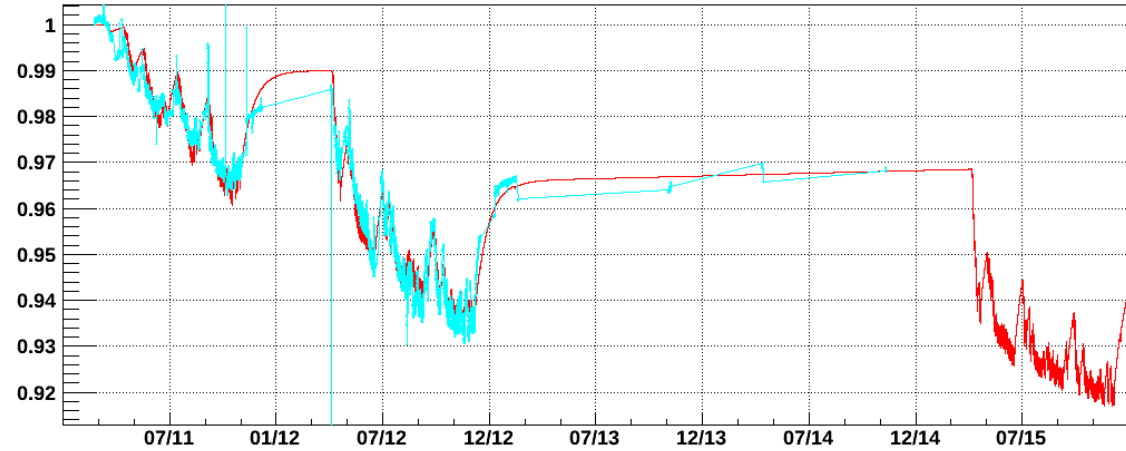
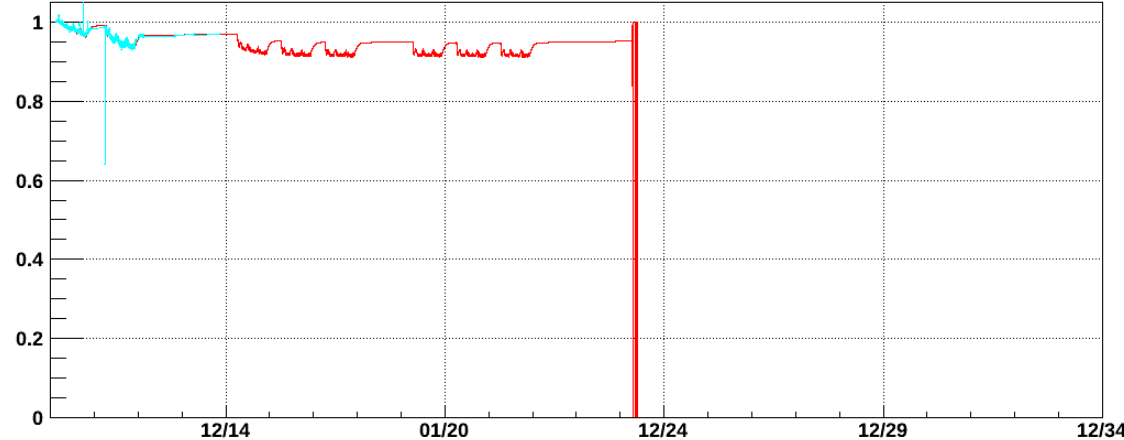
Fed 620 : Irradiation fit on harness 07



harness_7

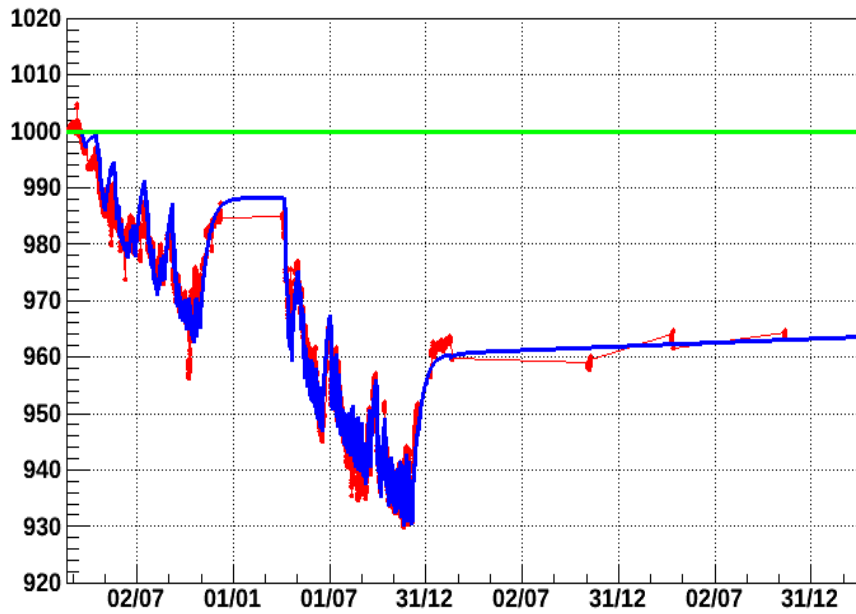


- **Fit model and extrapolate :**
 - **EB : FED 620-08**

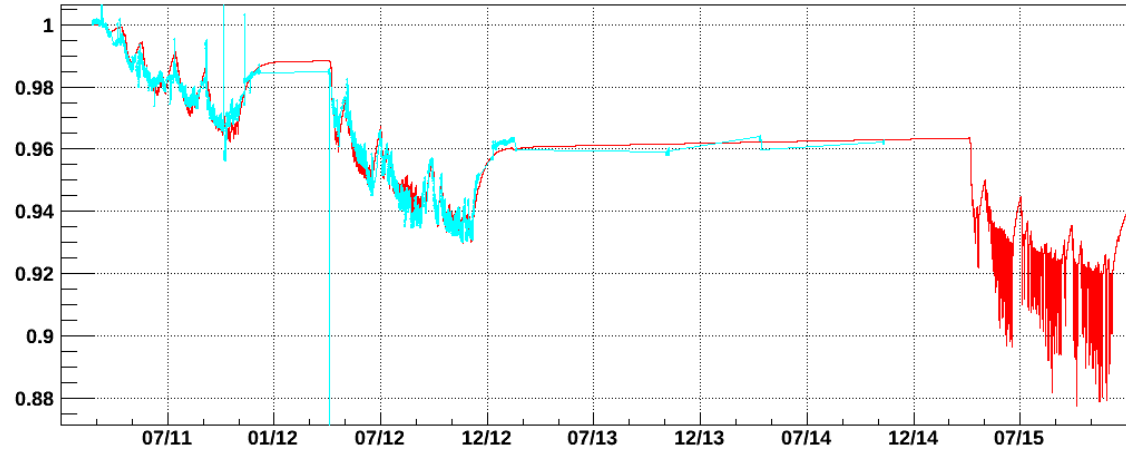
Fed 620 : Irradiation fit on harness 08

harness 8

harness 8


- Fit model and extrapolate :
 - EB : FED 620-09

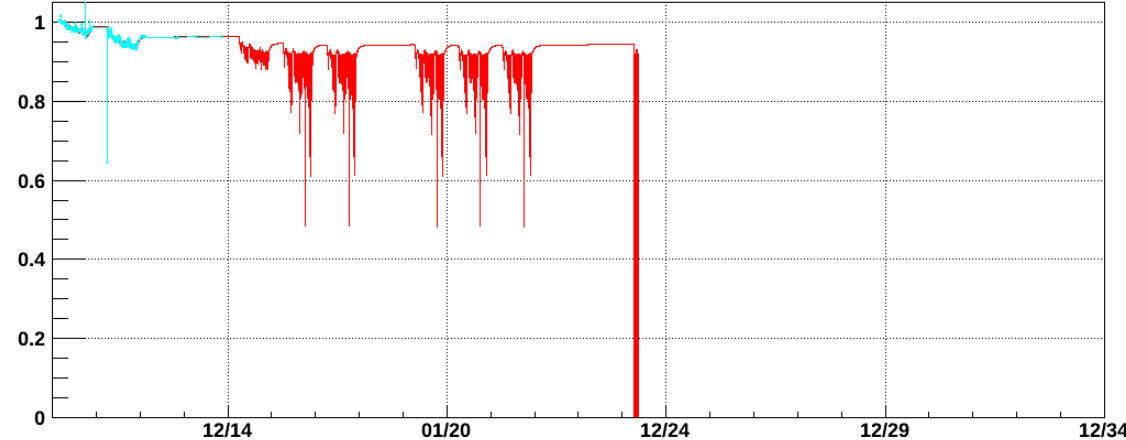
Fed 620 : Irradiation fit on harness 09



harness_9



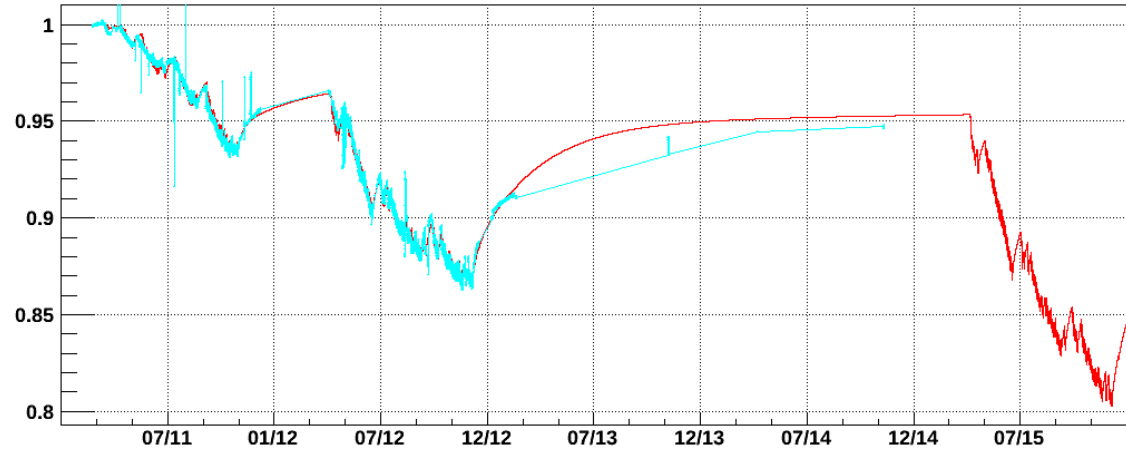
harness 9



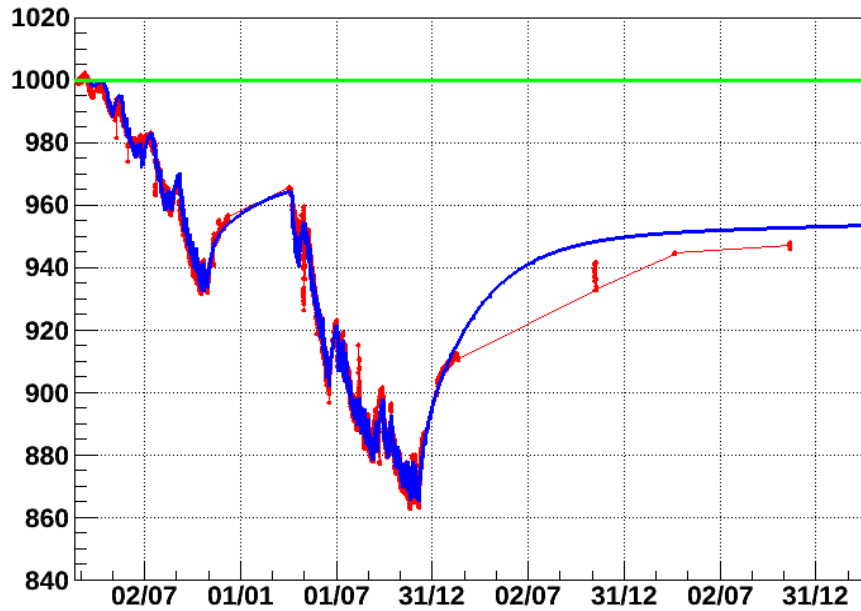
- **Fit model and extrapolate :**

- **EE : FED 654-15**

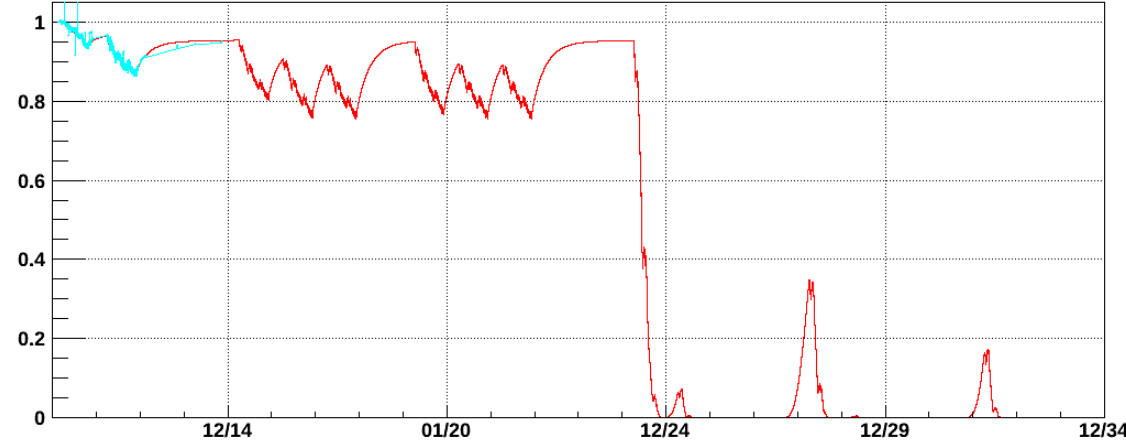
harness_15



Fed 654 : Irradiation fit on harness 15



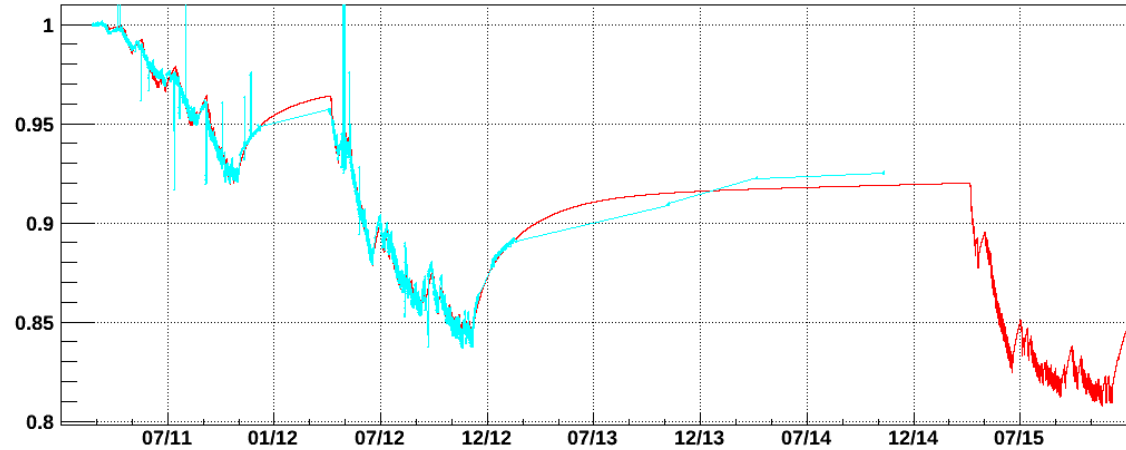
harness_15



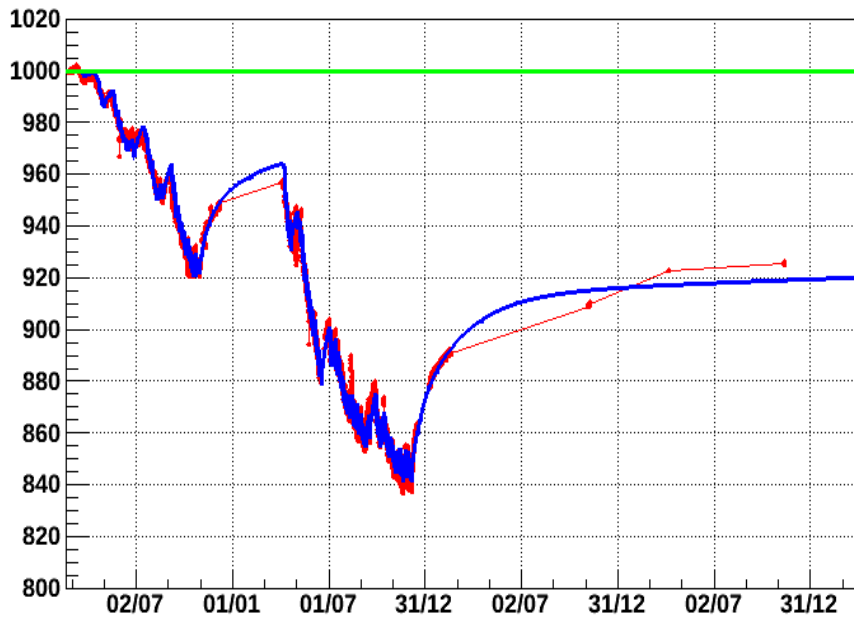
- **Fit model and extrapolate :**

- **EE : FED 654-16**

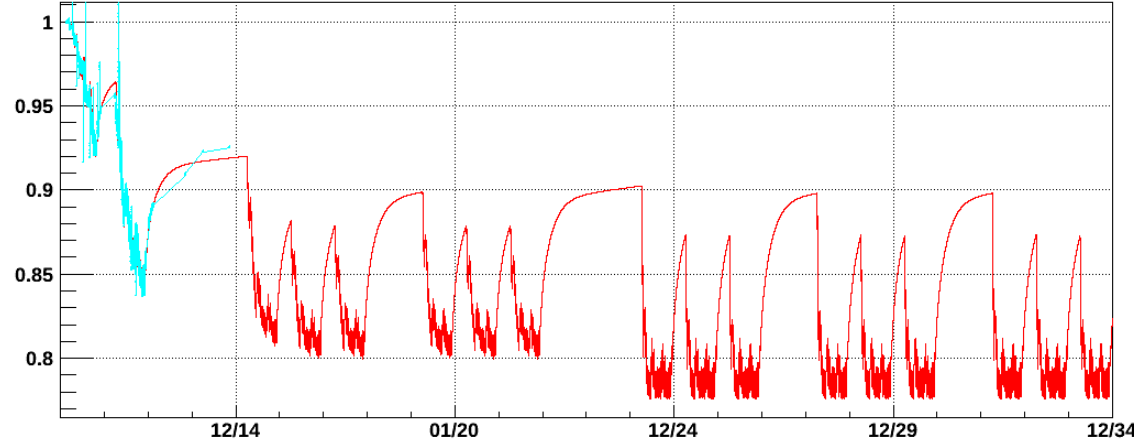
harness_16



Fed 654 : Irradiation fit on harness 16



harness_16



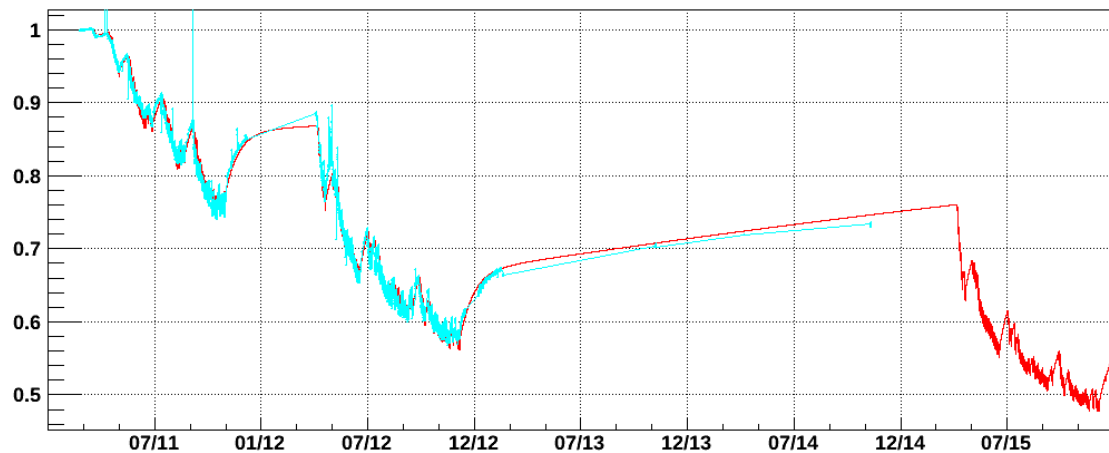
- Fit model and extrapolate :

- EE : FED 654-17

Fed 654 : Irradiation fit on harness 17



harness_17



harness_17

