



Introduction

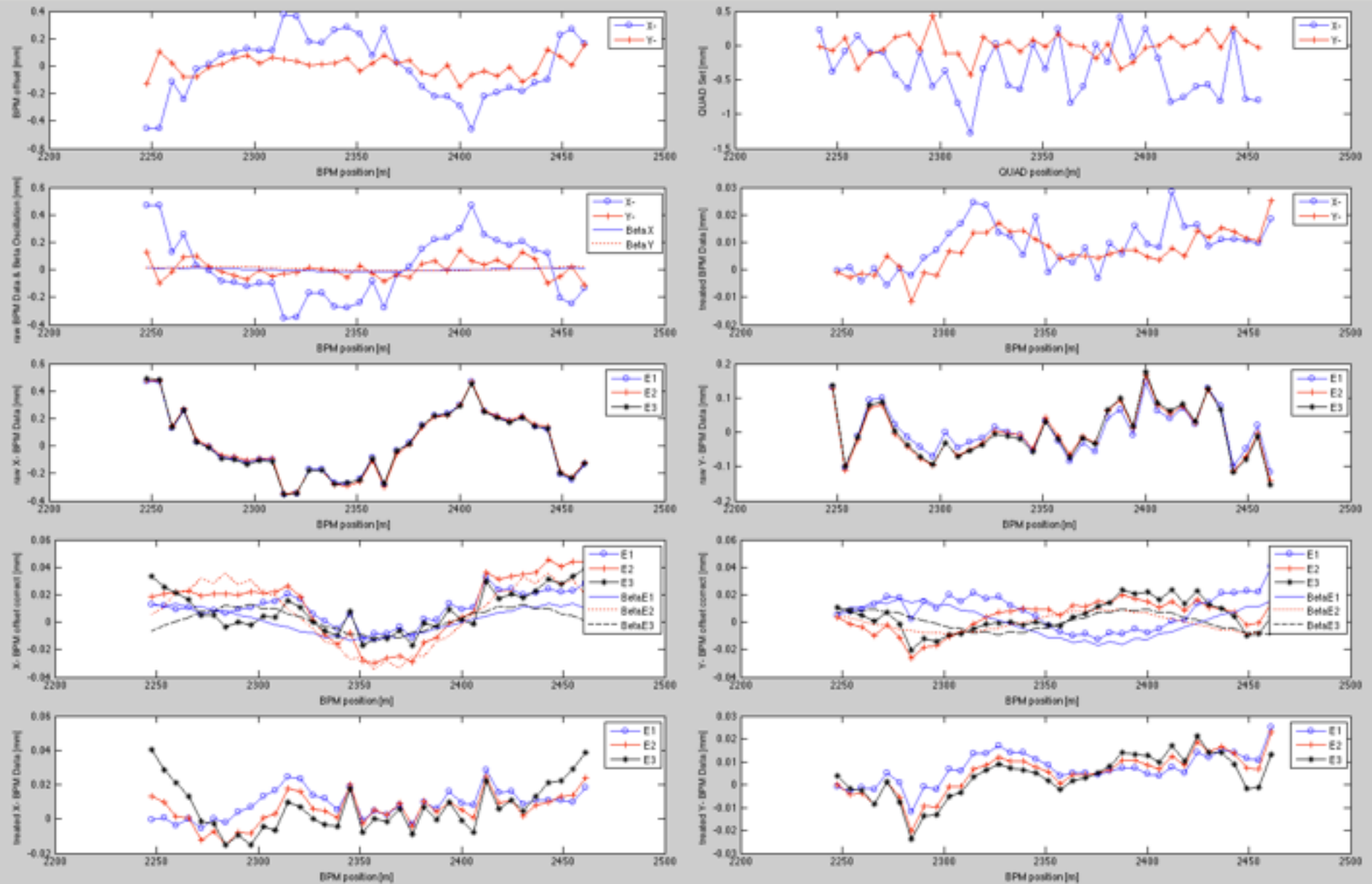
Tobias Haas

2 June 2017



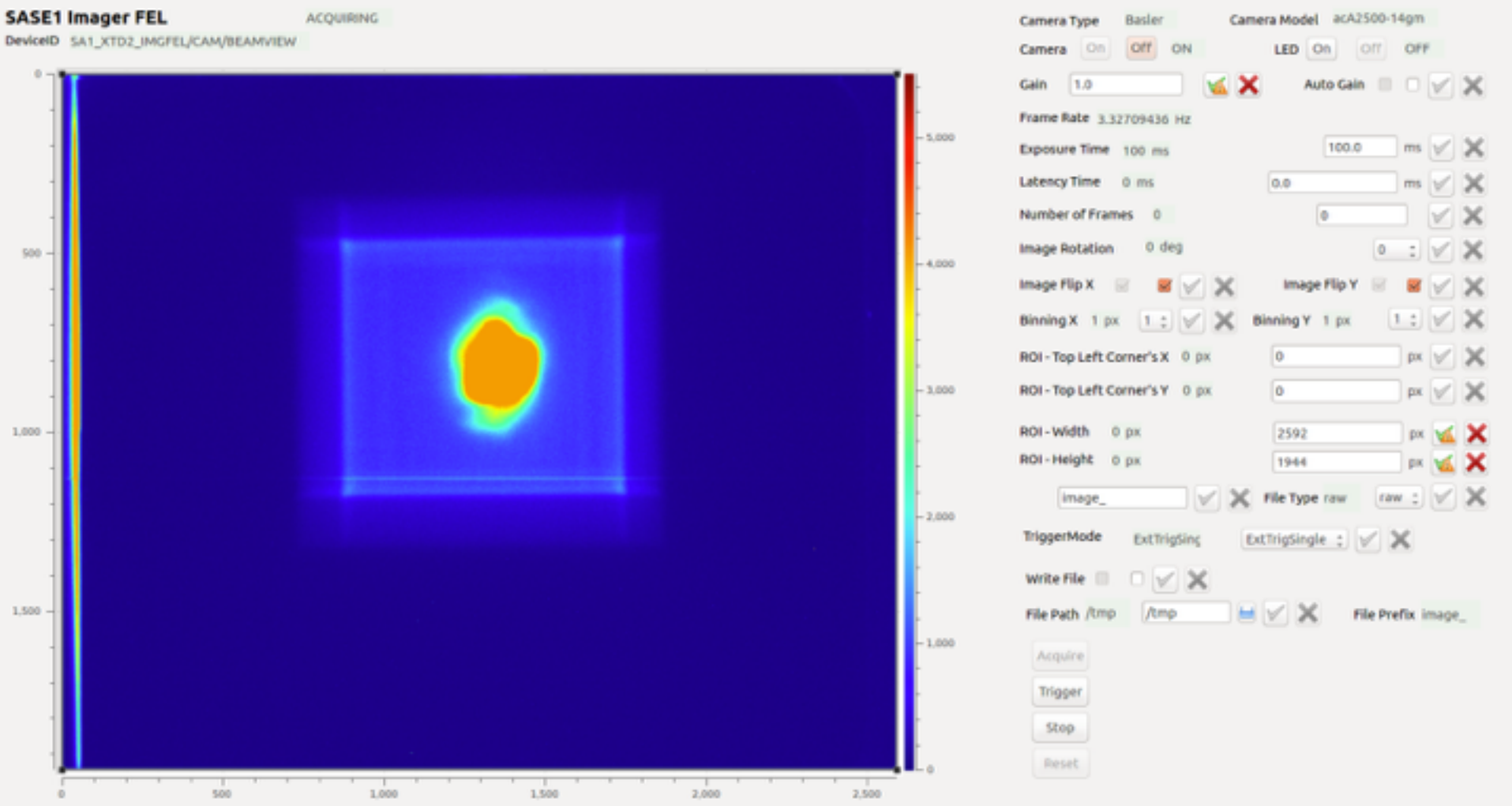
- Accelerator and Photon Commissioning
- Water Incident 27/28 May
- Elektro-Hartmann

Results of BBA by Y. Li (7, 8, 10 GeV)

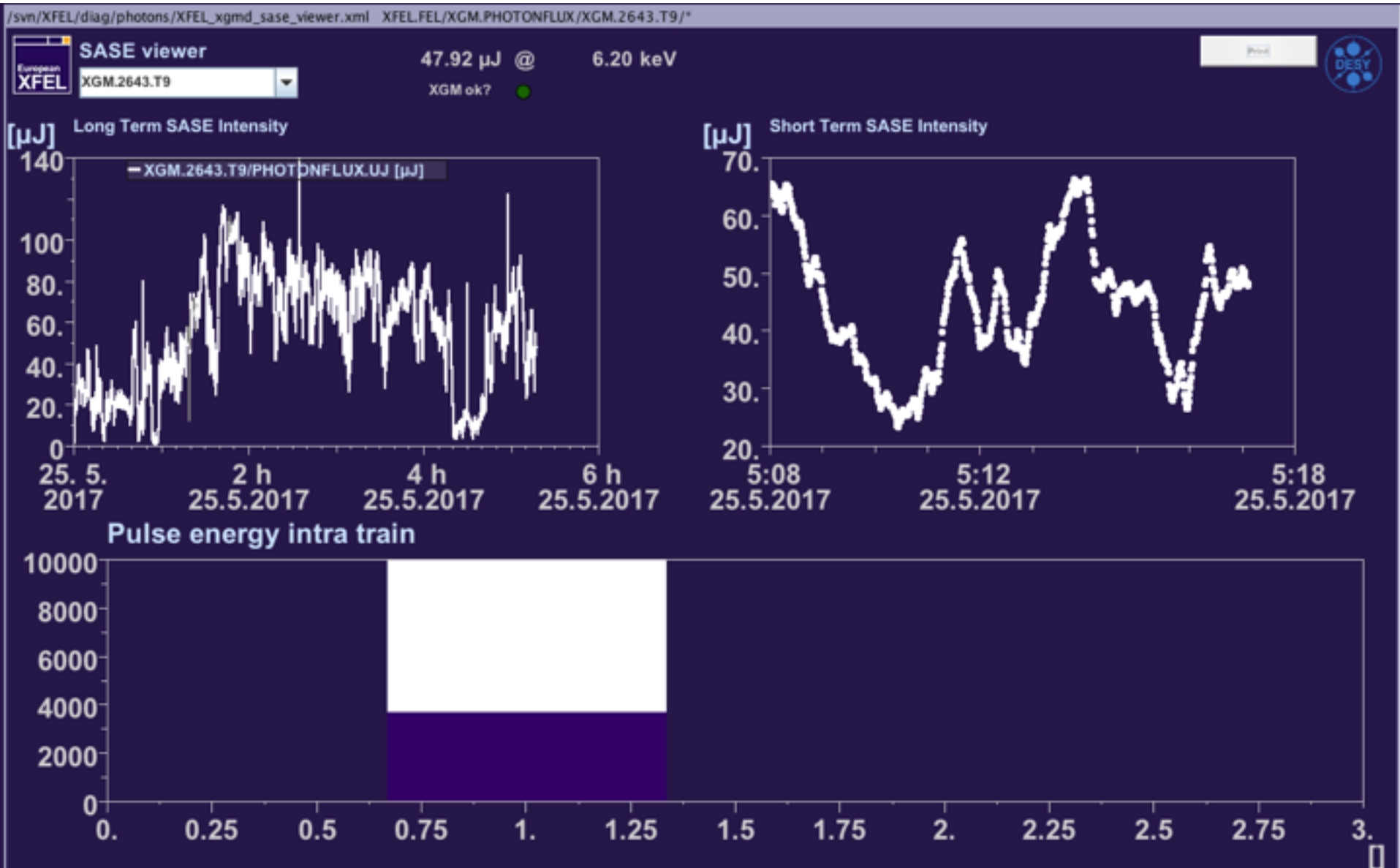


Wed 24 May, 21:54

4

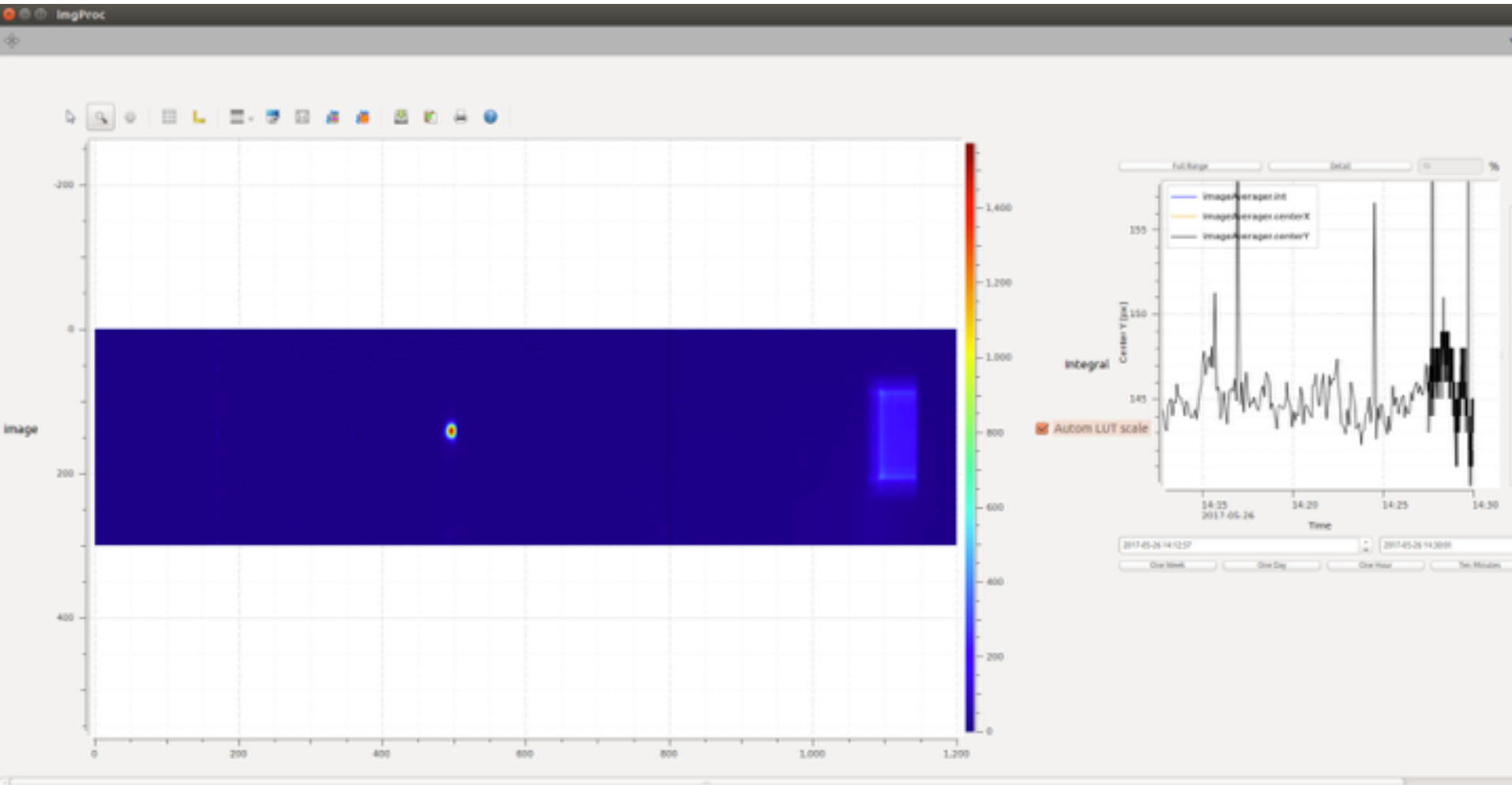


Up to 100 μJ in the XGM @ 6.2 keV

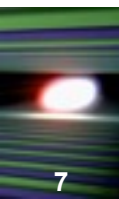


Friday, 26 May 14:33, Beam over both M1&M2

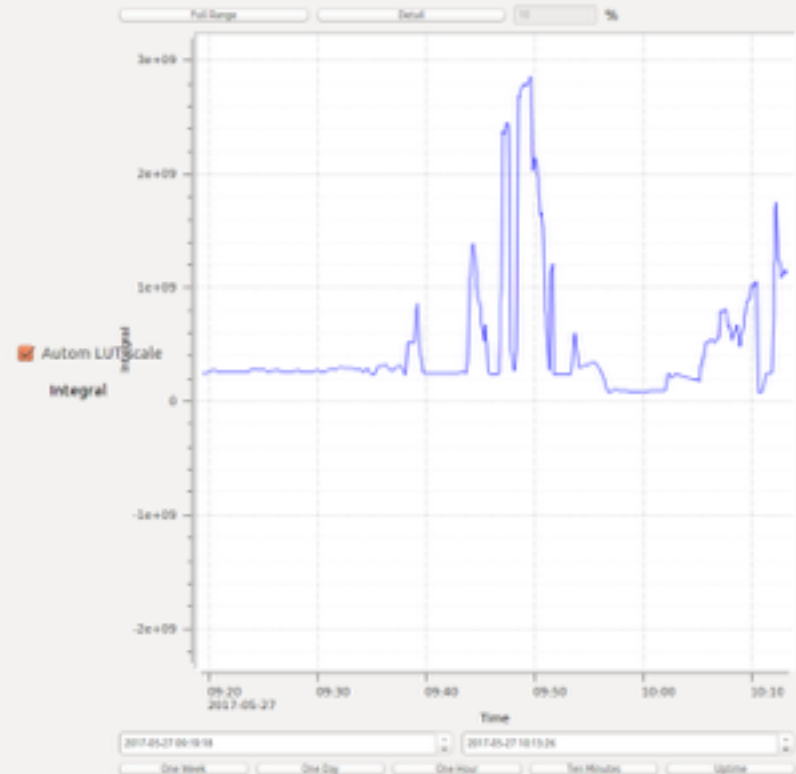
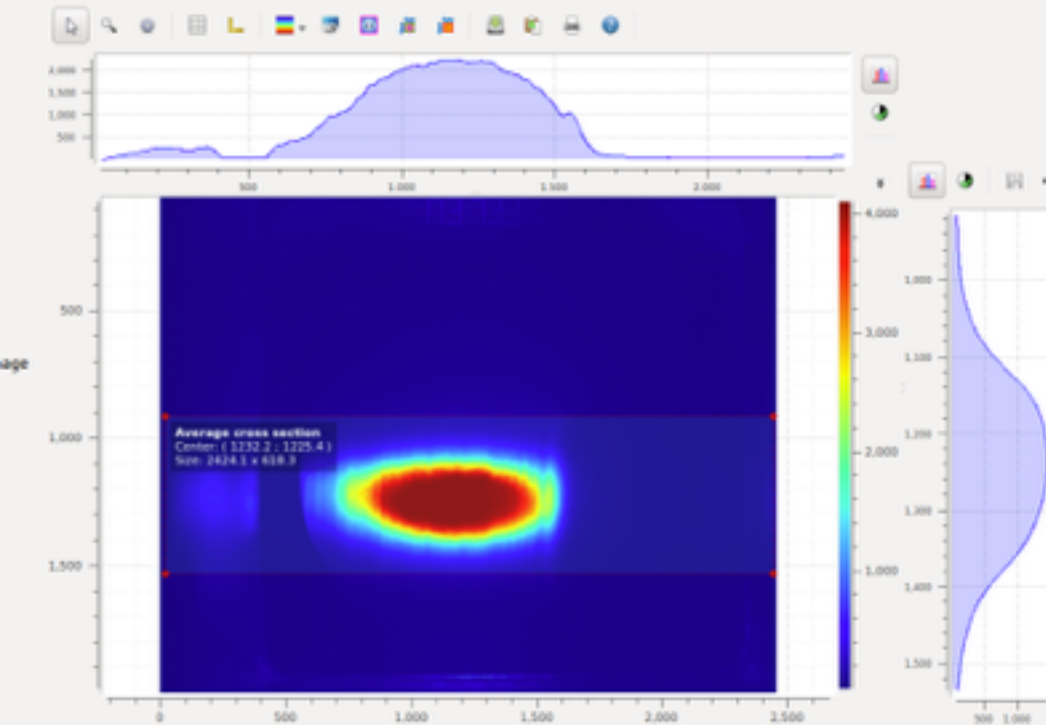
6



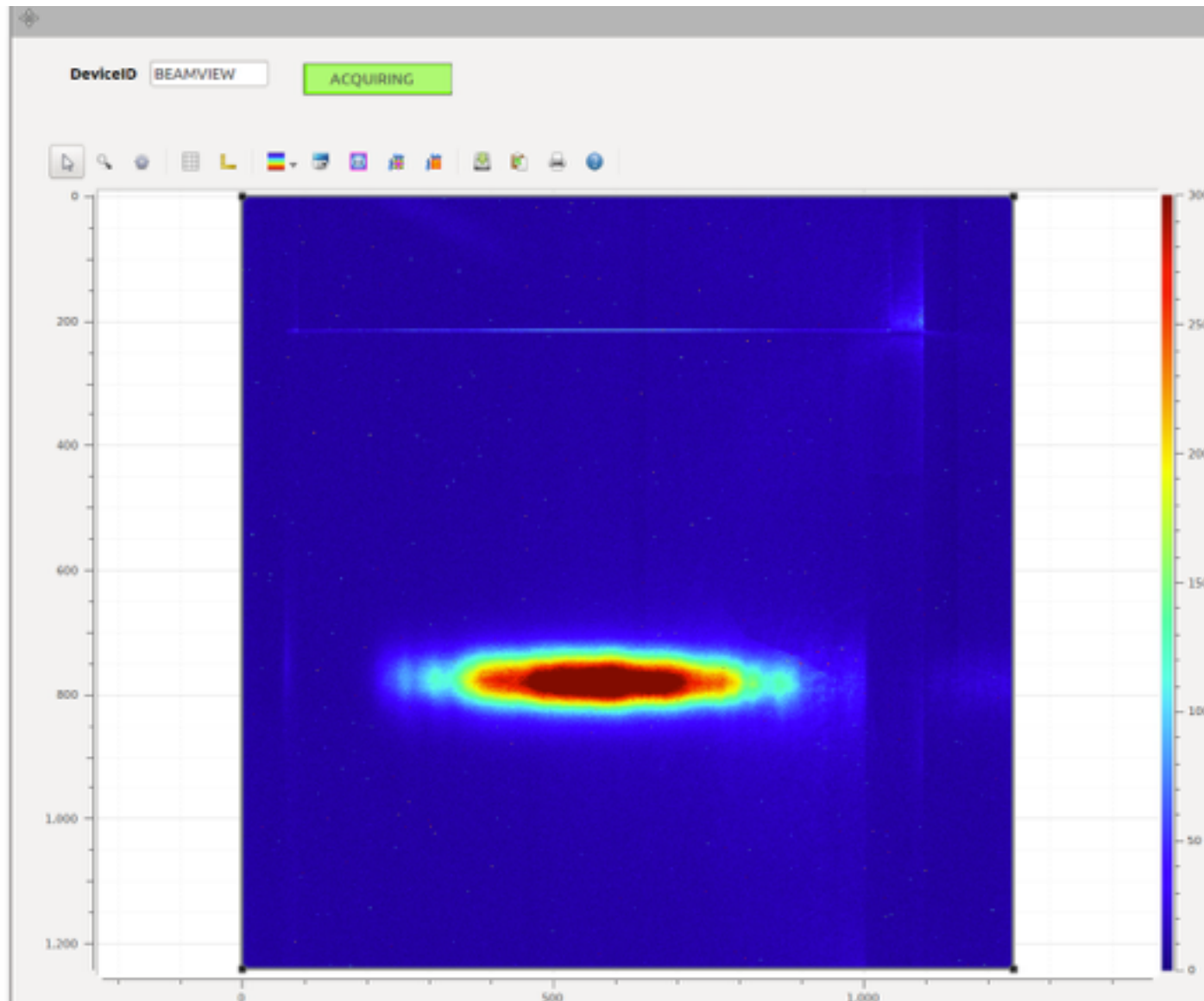
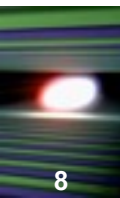
Saturday, 27 May 11:36 Beam at the end of XTD9



7

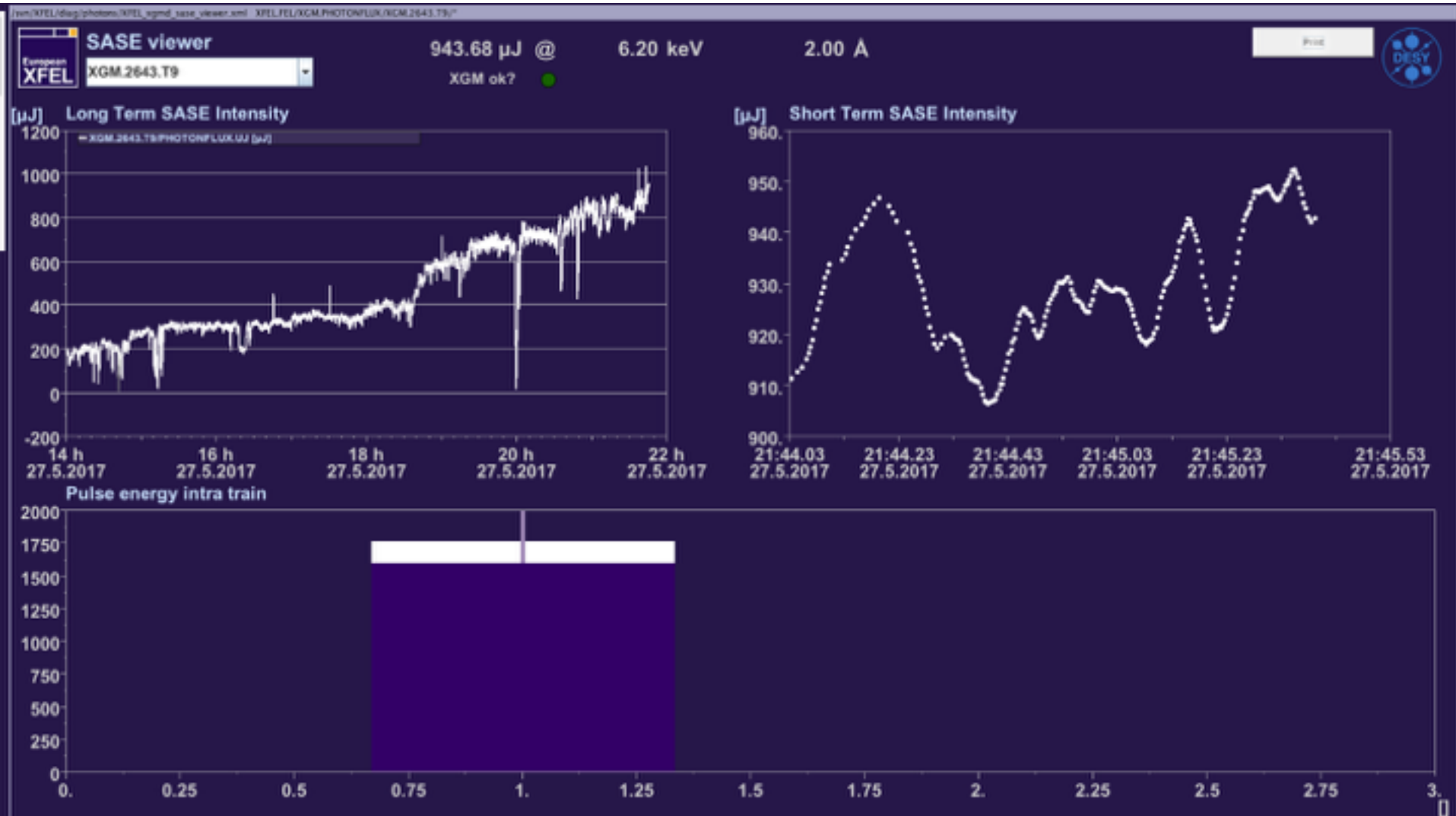


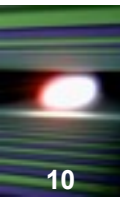
Saturday, 27 May 20:38: Beam over M3 in FXE

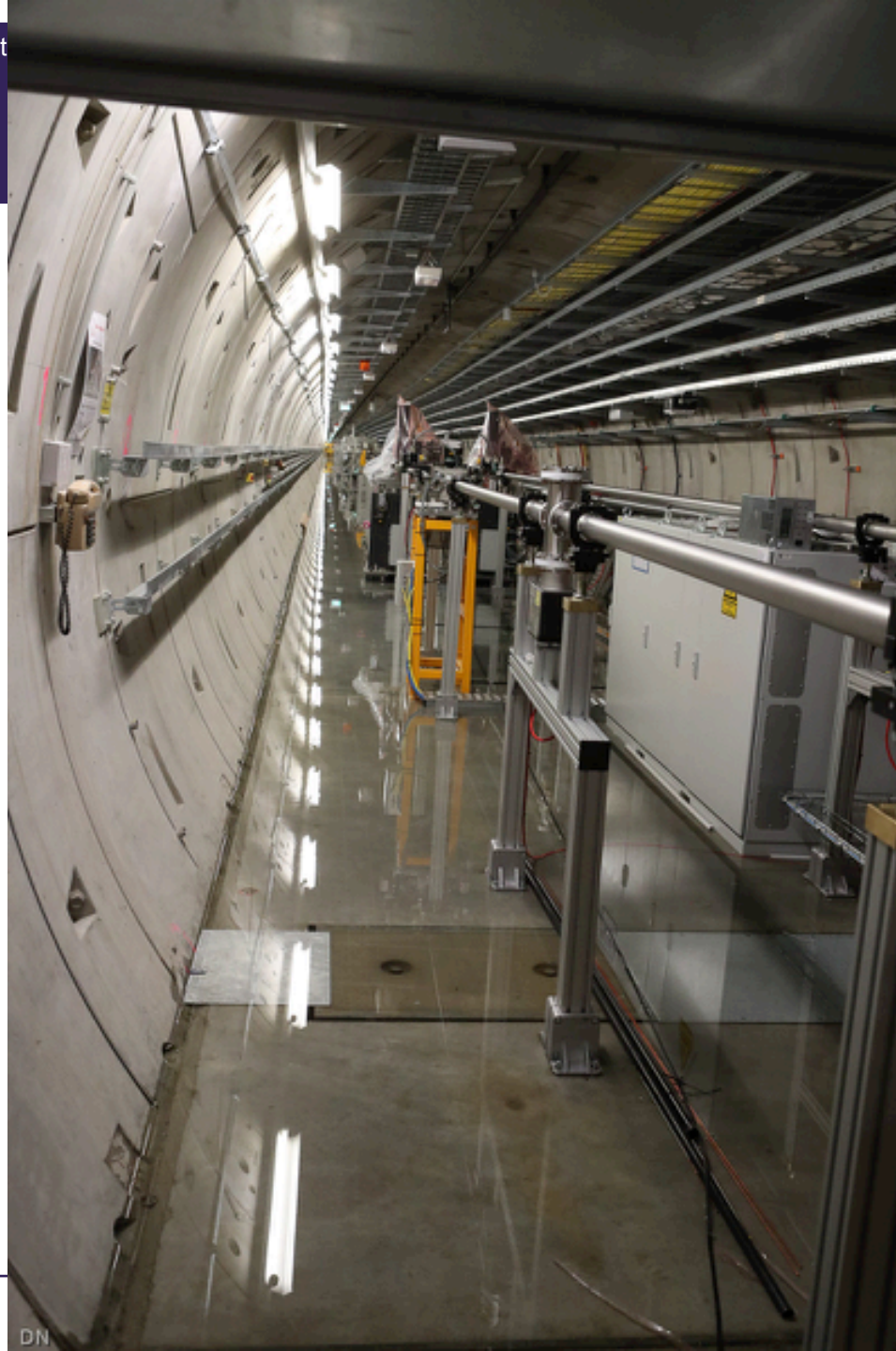


Saturday, 27. 5. 21:36 Almost 1 mJ @ 6.2 keV

9







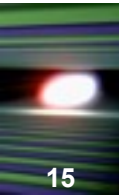
Cables in the Water







Water Incident: Sequence of events



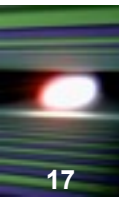
- On Saturday 27. 5. MKK was filling a tank in XHPSC with de-ionized water at 25m³/h
- There was alarm @ 17:00 which was acknowledged
 - no further action was taken
- The tanks were overflowing starting at around this time
- The water flooded the basement of XHPSC, the Media Channel and finally arrived at XHEXP1
- First water in XHEXP1 around midnight (from webcam)
- The water was discovered by the guard at 8:00
 - about to re-fill humidifiers in balcony rooms
- Water influx stopped around 09:30

Emergency Measures

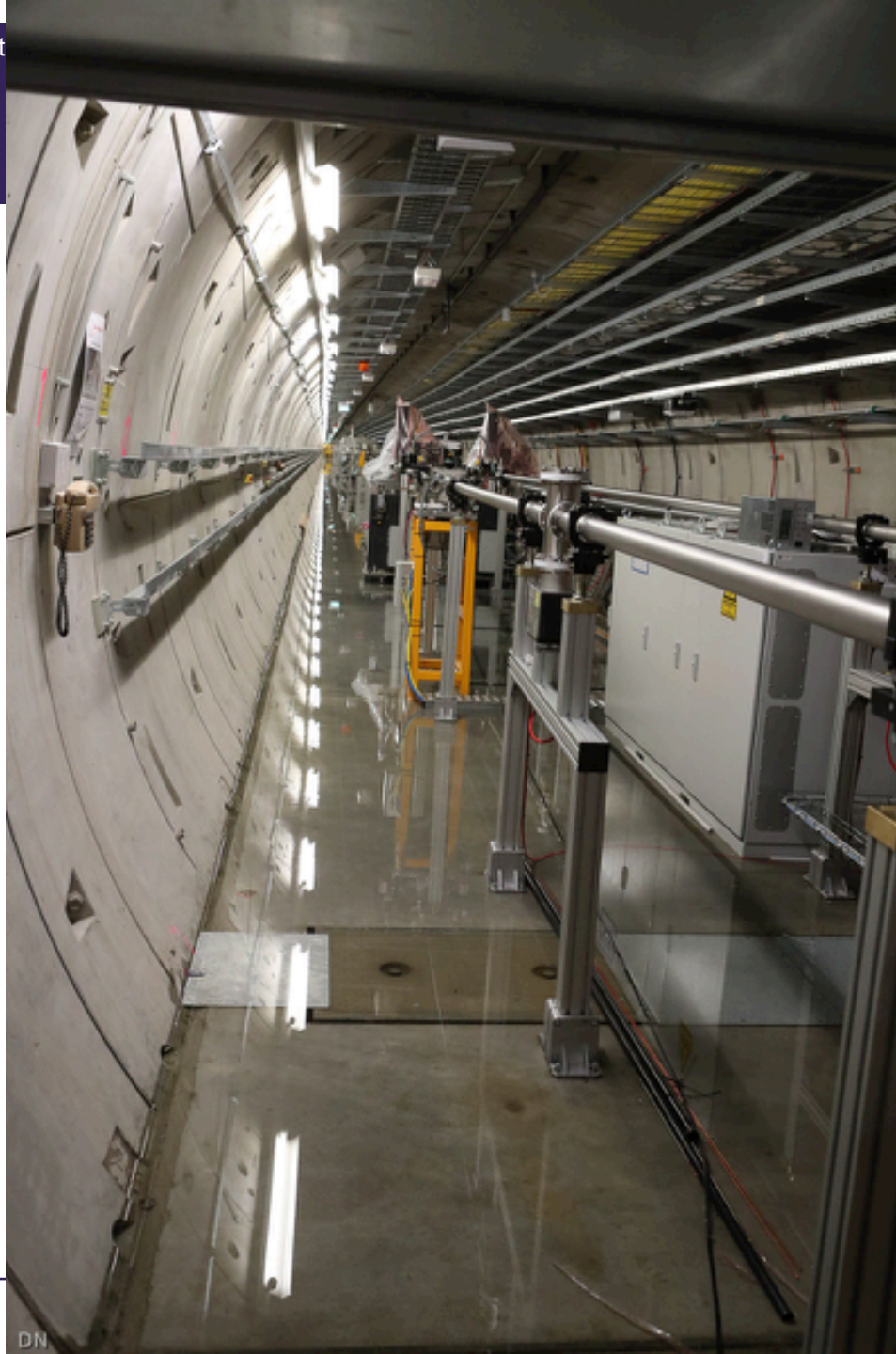


- immediately a common effort was organised
- Additional help was called in (Mostly voluntary)
- Fire brigade was not called
- About 250 m³ water were removed
- Submerged equipment was secured
- Effort lasted until 1830

Damages



- Some damage to building and infrastructure
 - Corrosion on metal stuff, Soaking of dry walls
- Most serious damage to connectors from Phase II cables
 - Some were already powered

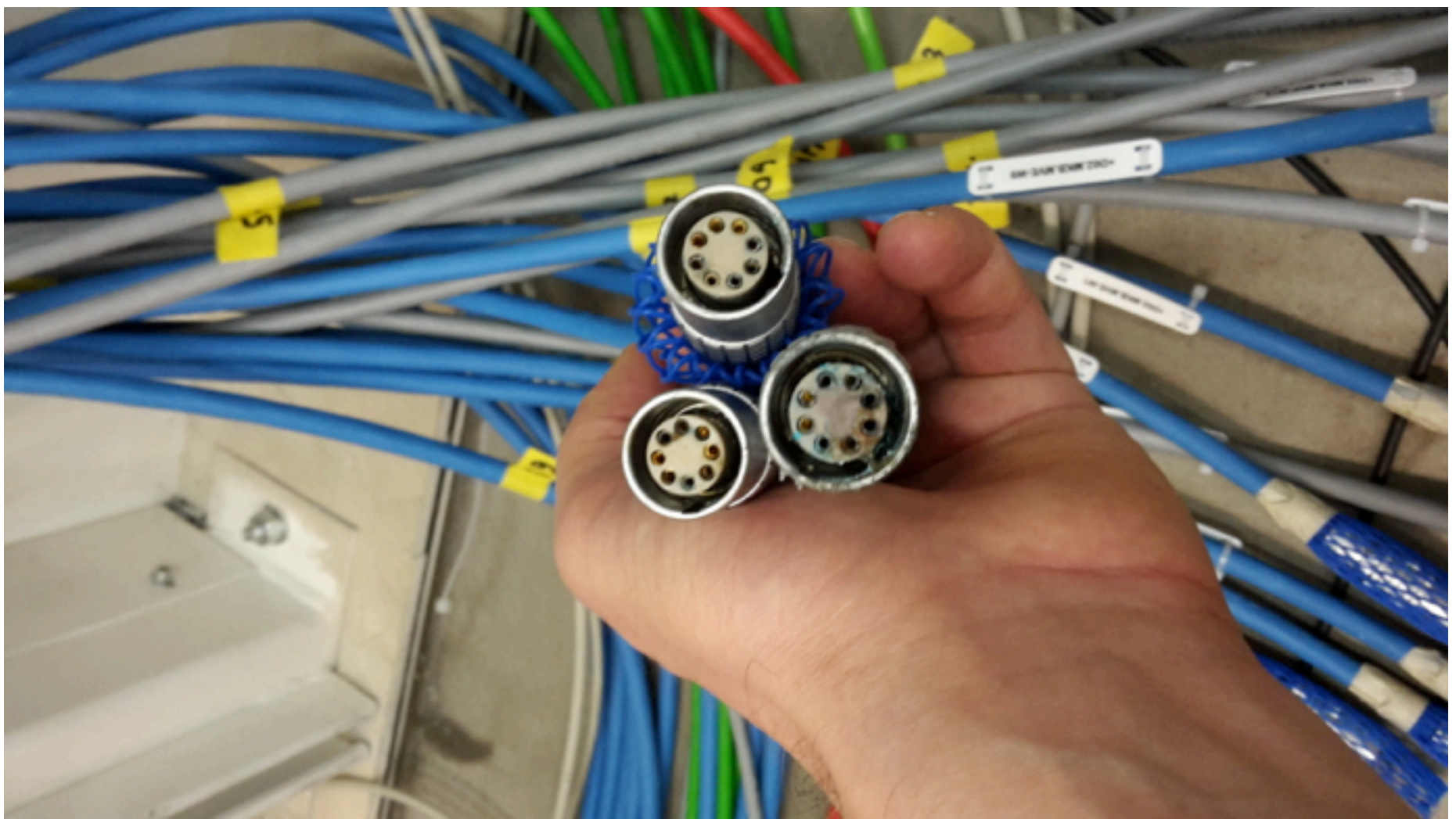


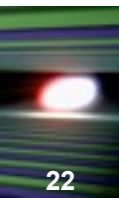
DN

Cables in the Water

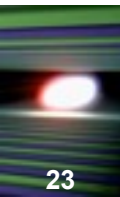








- AC systems were put on high de-humidification
- 15 dedicated dryers brought in
- Building damages will be repaired – not time critical
- Contact with Actemium – send 2 people next week
 - Corroded connectors, (30/10 SPB/FXE) will be exchanged
 - A subset of all affected connectors will be opened
 - All affected cables and connectors will be blow dried and re-tested
 - Only cables that show problems will be exchanged.
 - Cables that saw water will remain marked and preparations will be made to replace these cables in a couple of months after the first user run, if necessary.



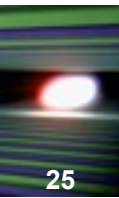
- After several very serious safety-related incidents, the Management decided to terminate all contracts effective immediately
 - EH is NOT ALLOWED to enter the Campus
 - EH can retrieve their tools and equipment only when accompanied by one XFEL person and a WEKO guard
 - WEKO might act as an independent witness

Elektro-Hartmann: What happens now?



- Procurement has started procedures for an extraordinary award of the outstanding work
 - This can happen with significantly shorter periods
 - But for some time we shall have no Electrical Contractor in SASE2/3
 - The future contractor might be known in 2-3 weeks
 - Very urgent works might then be possible upon request

Next meetings



- SASE1 Readiness (Instruments, Laser, Detectors)
 - 09:00 here
- SASE1 Readiness Dispatch
 - Mo, Wed 09:30 @ MCR
- XHEXP1 Coordination
 - Fr 9 June 08:30