

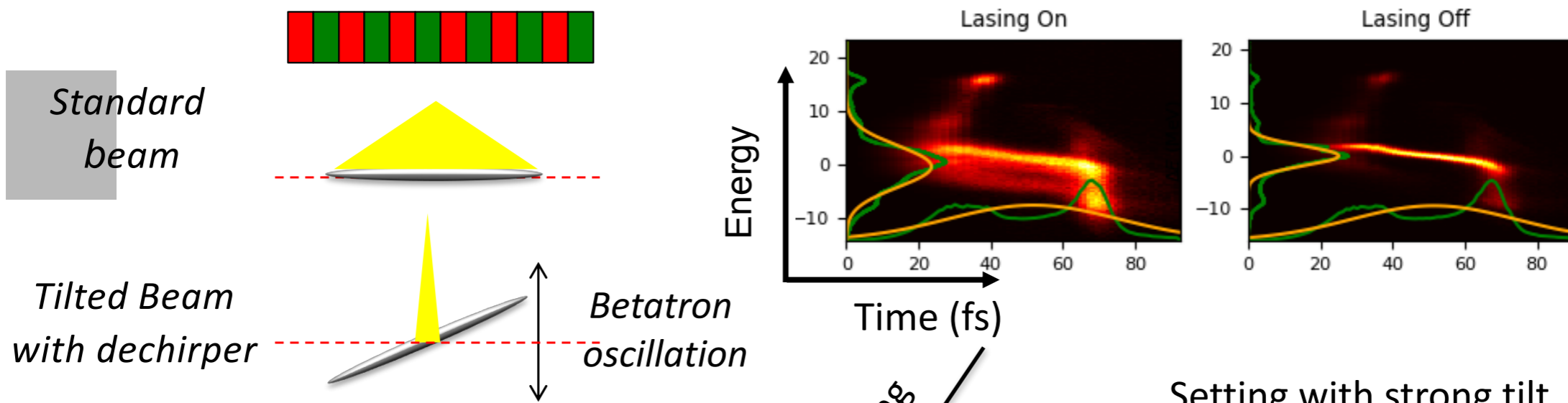
Athos was unfortunately down due to the SATUN19 vacuum incident.

- **Setup on Monday (Marco, Eduard, Didier, Philipp)**
 - Shift summary for details: <https://elog-gfa.psi.ch/SwissFEL+commissioning/21924>
 - only did basic machine checks -> photon delivery resumed in the late afternoon
 - passive streaker measurements for different dechirper settings <https://elog-gfa.psi.ch/SwissFEL+commissioning/21932>
FEL pulse durations (FWHM): ~45-50 fs full bunch (600 uJ), 15-20 fs for 200 uJ, 10-15 fs for 150 uJ, <10 fs for 110 uJ.
- **Photon delivery to Alvra through the week**
- MD-Aramis
 - Sunday - 2-Colour-Studies (C. Vicario, C. Arrell, S. Bettoni, P. Dijkstal)
<https://elog-gfa.psi.ch/SwissFEL+commissioning/21993>
 - Monday morning -> energy loss measurements (M. Leutwyler, T. Schietinger, J. Chrin)
<https://elog-gfa.psi.ch/SwissFEL+commissioning/22002>
- Beginning of Shutdown Mon 7:00

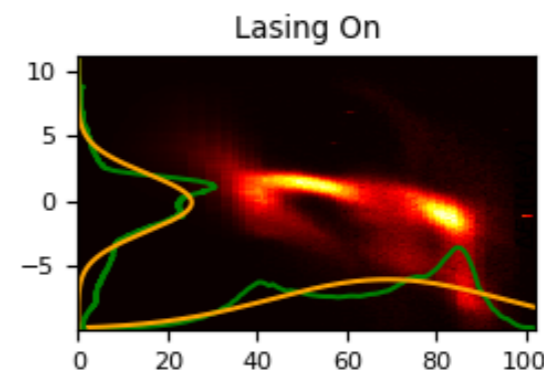
Passive Streaker Measurements

Recorded during setup on Monday: Eduard, Philipp, Marco & Didier)

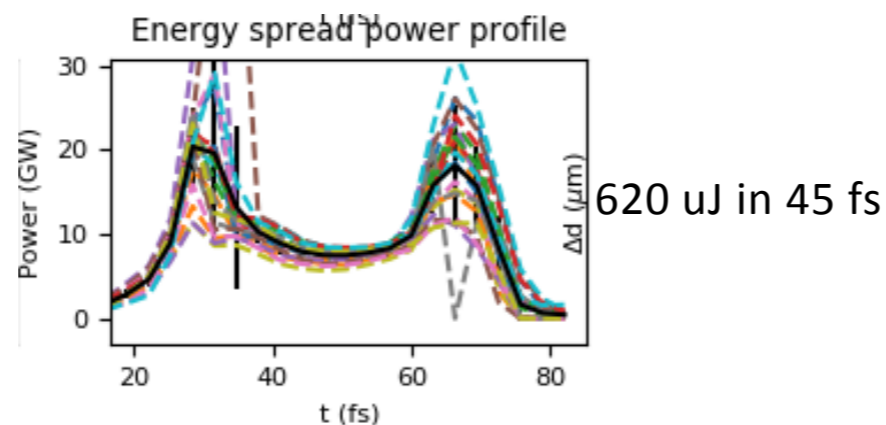
More information: MD Report (SPM) <https://indico.psi.ch/event/11818/>



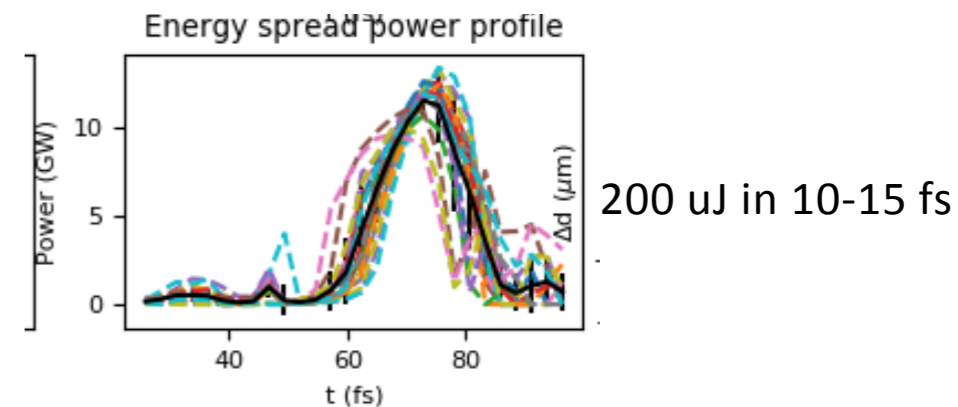
Setting with strong tilt



FEL Power Profiles



Whole bunch lases



Just the central part lases

- Monday night S30CB05 failure -> RF-Team had to replace switch unit (resumed photon delivery around 1:30 AM)
- Kicker failure (no downtime luckily) -> M. Paraliiev had to exchange hardware
- Screen motion control failure -> caused a brief FEL degradation due to obstacle detection
- Generally rather strong drifts during the week (laser piezos also needed several re-centerings) -> probably due to weather/temperature/humidity changes

Happy Shutdown & Good Luck with all the repairs/works

SwissFEL Overview AT Shutdown
AR Shutdown B1 Off B2 Off Maschine Mode 25.10.2021 10:14:37
Gun mode

SF-CR	A	25.10.2021 07:32:16	Shutdown						
Alvra		24.10.2021 01:49:44	Experiment done, thanks for the beam!	Active	Laser	Vacuum	MPS	MPS out	Photon AR
Bernina		13.10.2021 09:27:25	exp done	Bunch 2	Mizar	MA AR AT	BLM MAG ICT RRF	Main Aramis Athos	Aperture Beamline
Maloja		16.10.2021 16:23:53	Maloja Unattended	-0.9 deg	2.3 mm	BC1 UND UND	ALA CDR	L0: L1: L2:	SARFE10 SARUN03
Furka		13.09.2021 12:56:15	Furka unattended.	2.8 nJ	BC2 FRO FRO	MA L1: AR L1: AT L1: MA L2:	SCR Virt RF	shutter closed 0.000 keV	0 MeV/c inf nm

Photon AT
Aperture 5.0 x 5.0
Beamline SATFE10 SATUN13
shutter closed 1.547 keV
0.801 nm

Min: Max: 12 Auto: x/y/:

Station	MV	deg	Station	MV	deg		
SINEG01	Wait 0	OFF	0.0	S20CB01	Wait 0	FIL Heat Time	3600 s
SINSB01	Wait 0	OFF	0.0	S20CB02	Wait 0	FIL Heat Time	3600 s
SINSB02	Wait 0	OFF	0.0	S20CB03	Wait 0	FIL Heat Time	3600 s
SINSB03	Wait 0	OFF	0.0	S20CB04	Wait 0	FIL Heat Time	3600 s
SINSB04	Wait 0	OFF	0.0	S30CB01	Wait 0	OFF	0.0
SINXB01	Wait 0	OFF	0.0	S30CB02	Wait 0	OFF	0.0
SINDI01	Wait 0	OFF	0.0	S30CB03	Wait 0	OFF	0.0
S10CB01	Wait 0	FIL Heat Time	3600 s	S30CB04	Wait 0	OFF	0.0
S10CB02	Wait 0	FIL Heat Time	3600 s	S30CB05	Wait 0	OFF	0.0
S10CB03	Wait 0	FIL Heat Time	3600 s	S30CB06	Wait 0	OFF	0.0
S10CB04	Wait 0	FIL Heat Time	3600 s	S30CB07	Wait 0	OFF	0.0
S10CB05	Wait 0	FIL Heat Time	3600 s	S30CB08	Wait 0	OFF	0.0
S10CB06	Wait 0	FIL Heat Time	3600 s	S30CB09	Wait 0	OFF	0.0
S10CB07	Wait 0	FIL Heat Time	3600 s	S30CB10	Wait 0	OFF	0.0
S10CB08	Wait 0	FIL Heat Time	3600 s	S30CB11	Wait 0	OFF	0.0
S10CB09	Wait 0	FIL Heat Time	3600 s	S30CB12	Wait 0	OFF	0.0
SATCB01	Wait 0	FIL Heat Time	3600 s	S30CB14	Wait 0	OFF	0.0
SATMA02	Wait 0	INIT	Not req: Cond.				

0.79:

Last 10 Hour

SINEG01-DICT215 B1	1 pC	SARBD01-DICT030	0 pC	Pulse Energy AVG AR	0 μJ
SINEG01-DICT215 B2	1 pC	SATDI01-DICT020	0 pC	Pulse Energy AVG AT	0 μJ