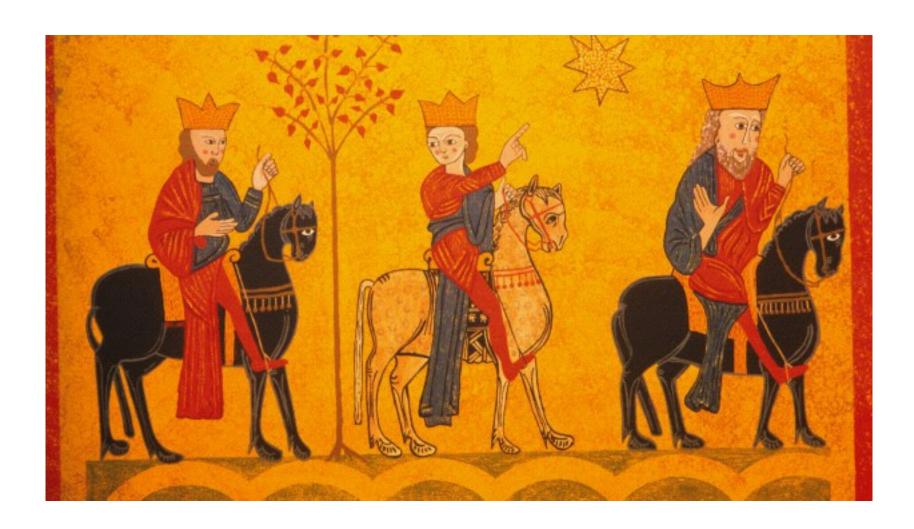


Introduction

Tobias Haas
Technical Meeting
6 Jan 2017







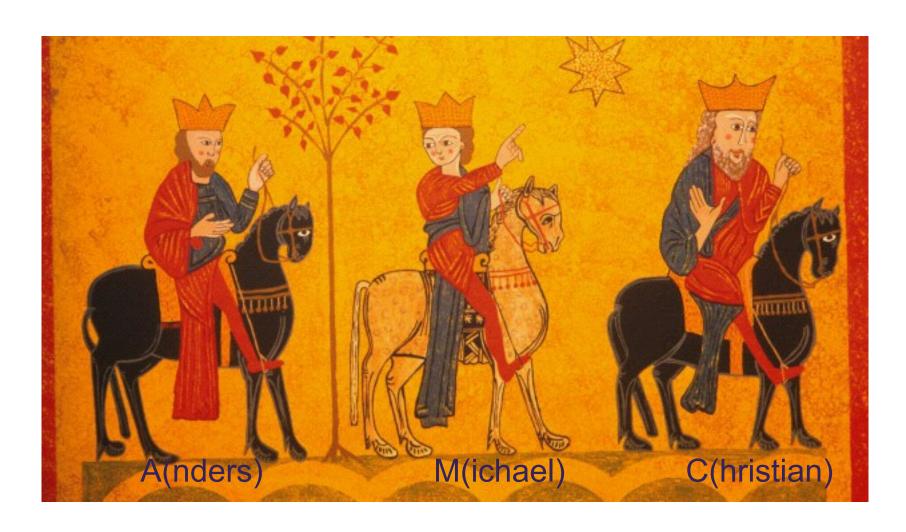














XFEL U&A&A or A&M&B!







Schedule Update



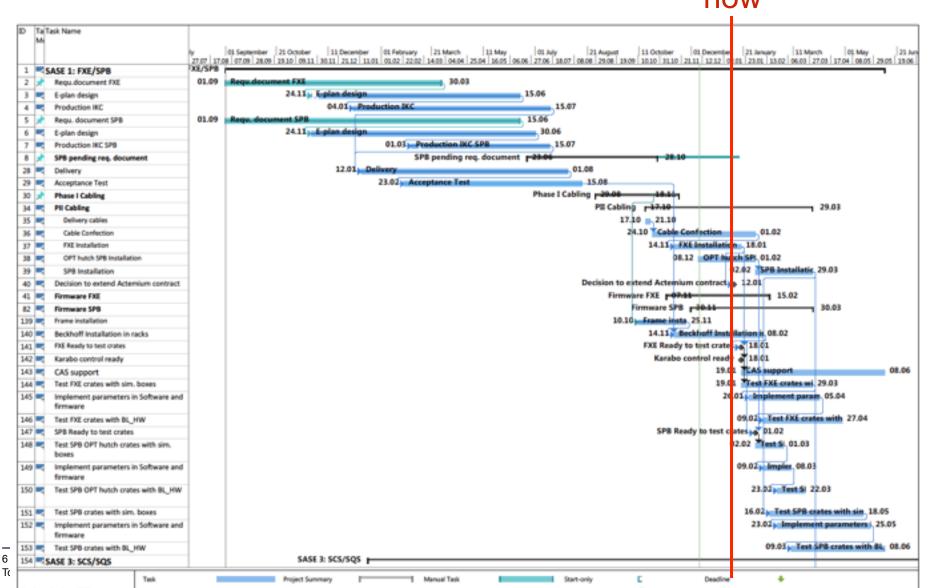
- SASE3 AC schedule from Caverion now available
 - Hutches handed to instruments: 3 Jul
 - Step1 (+AC, + Laser interlock. +Phase1): 12 Sep
 - Step2 (+Phase2 + Rad interlock +...): 1 Nov
 - SASE3 dates are driven by infrastructure installations (mostly AC)
- SASE2
 - Hutches handed to instruments: 5 May
 - Step 1: 11 Sep
 - Step 2: 6 Dec
 - SASE2 dates are driven by electronics and cabling



FEL SASE1: Infrastructure, Electronics, Cabling etc...



now

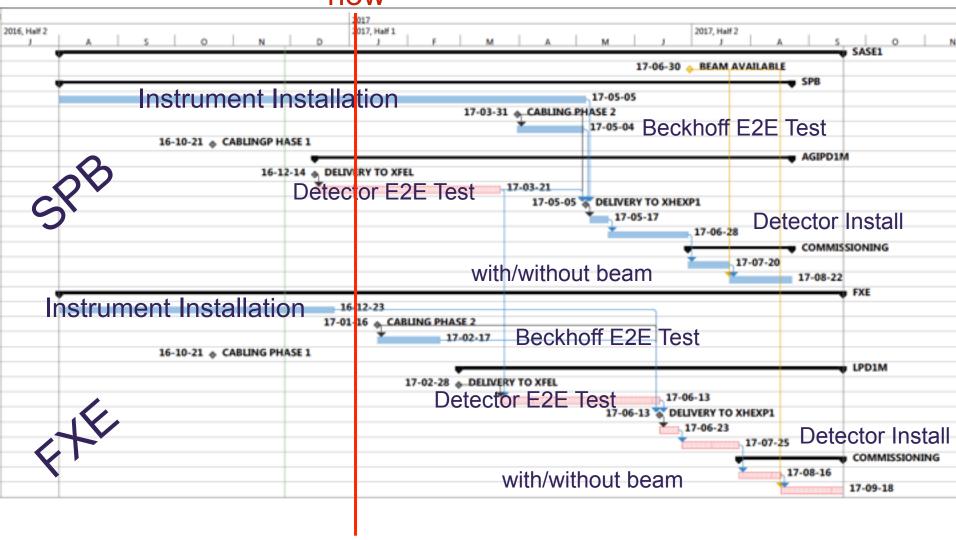




SASE1 Detector Integration



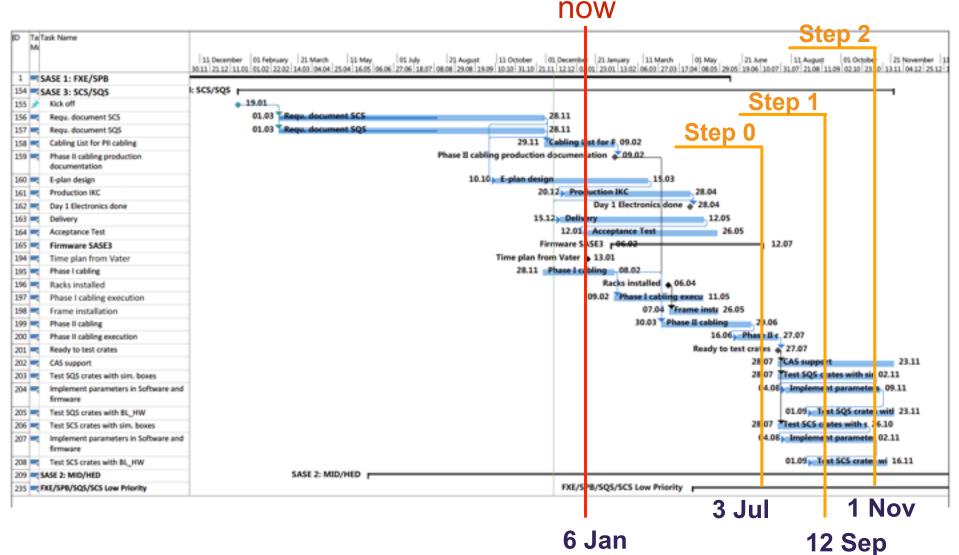






SASE3: Infrastructure, Electronics, Cabling etc...

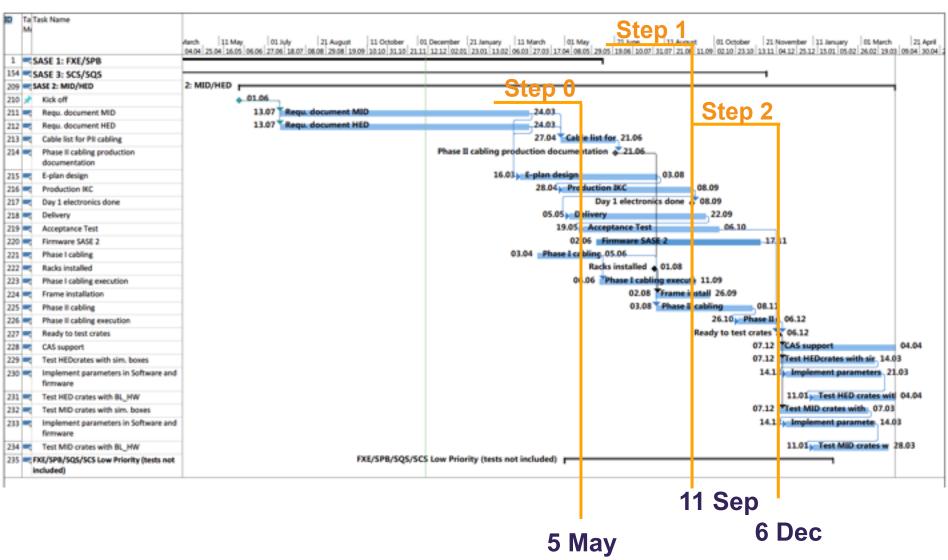






SASE2: Infrastructure, Electronics, Cabling etc...





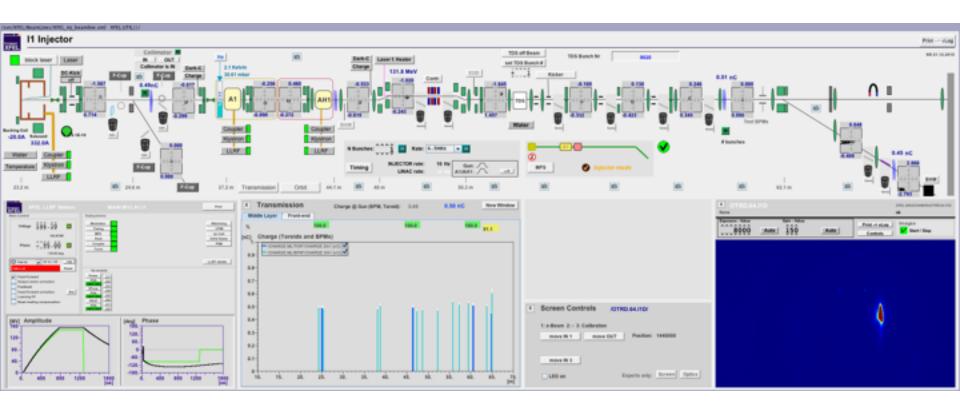
Status XTL



- Cool down of LINAC reached 4K on 28 Dec
- Some remaining work on CS8 and magnet current test this week and on the weekend
 - XS1 will be closed and it is not possible to go from XTD2 to XTD1 via XS1
- Beam into XTL possibly next week
- Commissioning of injector already started

First beam in the injector on 4 Jan









All SASE1 undulators closed to 10mm gap within 3 days from 19 – 22 Dec





XFEL PBS Installations in XTD2





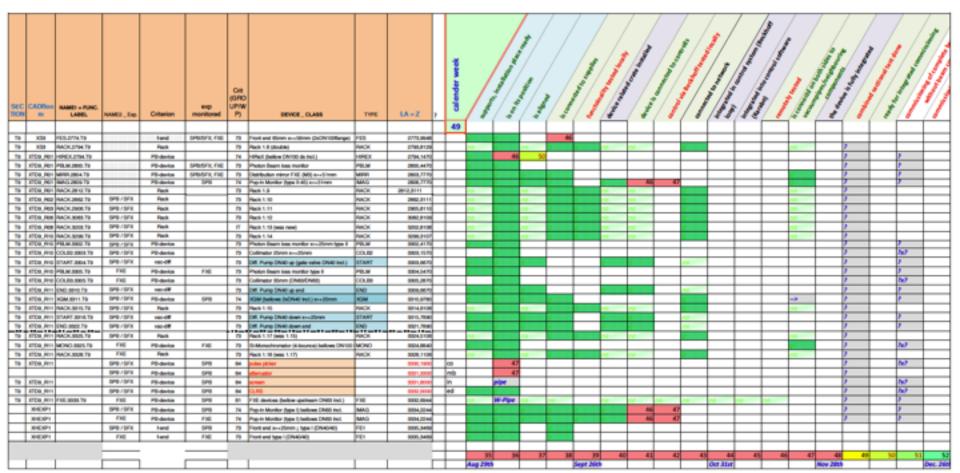
List by S. Cunis

- Everything installed and aligned
- Almost everything is cabled
- A lot of testing and commissioning still needed



XFEL PBS Installations in XTD9





- Installations and alignment done (a few problems remain)
- Some cabling and a lot of commissioning and testing needed

Status XTD4



- Undulators beam line is being re-aligned using the SLRS
- Commissioning of undulators is next
 - Removal of Safety covers, Safety Precautions
 - Fine alignment of the vacuum chambers,
 - Closing the gap to 10.000mm
 - Fine adjustment of limit switches, CALs, Hardstops,
 - Installation of Radfets, Air Coil



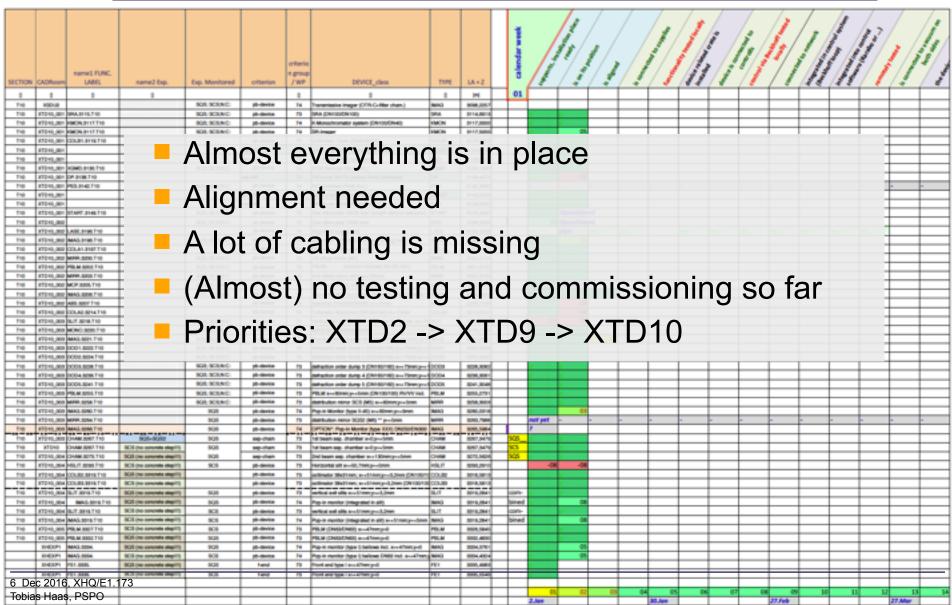


711 = E Otatao ATD To																									
SECTION	CADRoom	names FUNC.	name2 Exp.	Exp. Monitored	oriterion	oriterio n group /WP	DEVICE_class	THPE	UA+2		calendar week				///										
									H		01														
THE	100 UE			908 908/NC:	pti-device	74	Transmissive Imager (OTR G-filter cham.)	MAG	8098,8957																
THE	X7010,001	SPASHISTIC		SQS, SCS,NIC	pli-device	79	IMA (PAYOSENIOS)	SHIA.	3114,6913																
THE		HMCRL9117.710		909,909,NC:	pt-device		K-Monochromator system (DK100/DN40)	KMON	\$117,0000	\rightarrow	_				_					-	-	-	-	-	$\overline{}$
THE		COURT STIETE		SOR SCRNC	ph-device ph-device		(Shinager Cultinator Hore (SNE)ONE)	COLDI	9117,5000 3118,5008	\rightarrow	-		93		-	_		_		-	\vdash	-	-	\vdash	-
THE	X70+0_001	COCOTTO THE THE			vac-diff	_	DR. Pump DNAI spateam (DV Incl.)	START	H20,6100	\rightarrow	_	_			_					-					$\overline{}$
THE	X7010,001				190-0F		Diff. Pump Driet upstream	00	1138,F76	\rightarrow					_					-					$\overline{}$
Tre		KGM0.9190.710		909:908/NO:	pit-device	74	KSM (below (RM) Incl.)	HOMO	\$190,1000																
TNB		DP.8436.T10			vac-diff		DM pump WPT4 (helicus (RGE) upstream)	DP .	1136,4070				-02												
THE		P69.9140.T10		SOR SCRING:	ph-device		PES (settine Shell not.)	PES	3140,2000	\rightarrow	_		-		-		-	-		-	-	-	-	•	-
THE	X7010,001				vac-diff	79	DR. Pump DN4I downsheam DR. Pump DN4I downsheam (DV Incl.)	STARF	\$140,000 \$140,0042	\rightarrow	-				_	_		_		-	-	-	-	-	$\overline{}$
Tre		START 3149 T10		SOS SCENC	ph-device		Cas afterwater DNSD start (length without reducers)	-	240,000	\rightarrow	_		theosition	and .	-			-		-			-	-	$\overline{}$
THE	X7010,000			BOS BOSING	pit-device		Clas attenuator DNSS and	DIO.	3186,0286			52	theoultion	ed .											
The		LANESTINETIN			ph-device	_	Alignment laser CNISS	LASE	\$195,960W				pipe	me .	ne .		-	ne .	mg.	-	~4	-	Mar.		
Tree		MAG.8196.710		SOR SCENE	pit-device	Til	(C-imager (CNSS-SS) sellows -venting incl.)	menG	\$196,9670				Q3												
TNO		COLAL BIST TIG			ph-device		Collinator 20mm (CNEXAS)	COLAI	\$197,0000	\rightarrow	_				_					-	-	=	-	=	$\overline{}$
THE		MPR.3000.710		908.908NC: 908.908NC	ph-device	_	hat offset narror (NT) PSLM+ (reducer-bettine (NYS) (nd.)	MIRR	1000,3156	\rightarrow	_				-	_		_	_	-	-	-	-	\vdash	$\overline{}$
710		MPR SOSTIO		NOR ROBACO	ph-device ph-device	79	One offset money (MC) and Tenney	MITTER	5001,01535 5000,21400	\rightarrow	_	_			_	_		-		-	-	-	-	-	$\overline{}$
Tre		MCP.3006.T10		908 908NC:	pit-device		MCP x Plean; (roughing ind.)	MCP	3005,0719	\rightarrow			parked		_					-		$\overline{}$	$\overline{}$	-	$\overline{}$
The		MAG.3006 T10		908,908,NC	ph-device	-	Pop in Monton and Planning Sype 10 Chicoso-Chicoco s	-	3005,8691					0											
Tre		486.800FT10			ph-device	19	Absorber (ENCOCOENCOS) a Tisren	M05	5006,7190				-04												
TNB		COLAR SHATTIS			pb-device	79	Collinator 85x30mm (SK180/160) avx 75mm	COLAR	8018,6701				-08												
TNO		BUT-3018-T10		SOR SCRAIC:	pli-device	-	Vertical sitt (DN160/CRV160) below DN160-ds. s-+ 75	-	3018,0599	\rightarrow	_	-00	00		_					-	-	-	$\overline{}$	-	$\overline{}$
The		MONO:8899.710		909,905,NC:	ph-device		act I.ray monochronator	MONO	9019,7105	\rightarrow	_			_	_	_		_		-	-	-	-	-	$\overline{}$
TNB		MAG-8001-THD DOD1-8000-THD		SGE SCENIC	ph-device ph-device	74	Pop in Monitor (type 8-90) (DK150 believe incl.) s=7 perfection under dump 1 (DK150750) s==75mm;y==		8001,3091 8000,8986	\rightarrow	-			0.	-	_		-		-	\vdash	-	-	\vdash	$\overline{}$
Tree		0000.8894T10		909 909 NO	ph-device		petraction order dump ((Antichiti) === Plentry==		2024,898	\rightarrow		_			_					-					$\overline{}$
Trep	_	DOOR RESET NO		SOR SCRNO	ph-device	79	particular stars during 3 (DA160140) and Talentyne	-	1009,890	\rightarrow					_					-				-	
Tre		0004.8896Tv0		SOR SCRNIC	pit-device	79	defraction order dump 4 (DN180190) and Timeryon		9096,9001																
THE		D005.8041.T10		909:909:NC:	pb-device	79	defraction order dump 5 (DA16G16G) and Timerupon	0008	100,004																
the		PRIM.3056.T10		SOR SCSNIC:	ph-device		PBM and temperature (Direction) ReVisited.		3055,2791	_					_						-	$\overline{}$		$\overline{}$	
THE		MERC 2058 T10		908 908AG	pit-device		datribution name (ICS (MI) as-40mmy-s Smin	MINN MINO	9058,00016	\rightarrow	-		_		-	_		_		-	-	-	-	\vdash	$\overline{}$
Tre		MAG-5090 T10 MPR-5084 T10		108	pli-device pli-device		Papin Montor (type II-45) au-60mm pu-6mm pletrouton remor (KOS) (MS) ** pr-5mm	MORE MORE	3090,1016 3090,7966	\rightarrow	-	of yet	98												
Tre	William non	MANUSCOSS Trees		909	ph-device		CIPTION" Pro-in Montar Byon 1000 (MISSIGNISO)		3095,5884	_	-	- 1													
the	X7010,000	GHAM. 5067. 710	909-9092	909	esp-chan	79	Tell beam eig. charition in-Cip-chris	OWN	2007,0479	- 3	95_														
TNB		O14M3067.T10	SCS (no concrete step??)	808	sep-chan	79	hal beam sep -chamber s-0-y	OWN	8087,9479	-	CS.														
THE		CHAM-3079-T10	SOS (no sonorete step??)	808	sep-cham		Ond beam sep. chamber and 30mm; you find	CHAM	3015,M0H	- 1	Q5											=		=	$\overline{}$
THE		HSL/T.3090.T10	SCS (no concrete step??)	909	pb-device	-	Horizontal elit eSt./met.ySmin	HSLIT	3090,7910	\rightarrow	_	-06	-06		-	_				-	-	-	-	-	$\overline{}$
THE		COL80.8916710 COL80.8916710	SOS (no concrete atopiti)		ph-device	79	ordinate Mallion, e-riting-1,3nn (Artist	COLIE	SPEARS	\rightarrow	-				-	_		_		-	\vdash	-	-	\vdash	-
710		SUT-SHIRTING	SCS (no concrete step??) SOS (no concrete step??)	808	pit-device pit-device	79	performing Multi-term, as of thems you'd, them (DM 10010) sections and sales as of thems you'd, them.	SL/T	8019,2841	-	orn-				_					-	\vdash	-	-	-	\vdash
Tre	X7010,004		SOS (no concrete step??)	909	pit-device		Prop in monitor (integrated in sit)	meng.	5019,0941	_	ined		CH CH												\Box
THE	_	BUT 3819.710	SCS (no concrete atepit)	SCS	pli-device		seriod and silts are Silven you \$2,0mm	BUT	3019,2841	_	OFFI-														
THE		MAG-3019 T10	SCS (no sonorate step??)	909	ph-device	74	Pap is monitor (integrated in slift) and framey-down		3019,2841	6	ined		- 06												
Trep		PRIMARKETTO	SCS (no sonorete step??)	908	pti-device		PRA (DISSONS) and heap-d	PELM	5005,5845				1												
THE		PRIM SHIZTIO	905 (no concrete step??)	SQS.	ph-device		PILM (DNSIONE) and heapy d	PELM	3000,4000	\rightarrow	-				_					-	\vdash	-	\vdash	\vdash	\vdash
\vdash	DEP	MAG-3004. MAG-0004	SOS (no concrete step??) SOS (no concrete step??)	909	pti-device pti-device	74	Pop-is monitor (type I) belows tool x++4/hmcy+0 Pop-is monitor (type I) belows (1988 incl. x++4/hmc)	MAG	3004,3701 3004,4704	\rightarrow	-		95		_					-	\vdash	$\overline{}$	-	\vdash	\vdash
	DESP		SOS (no concrete step??)	808	Fend		Print and type I are 67 may of	701	3000,4083	\rightarrow										-					$\overline{}$
	-		SCS (no concrete step??)	SCS.	fund		Front and type I are 6/hercycl)	FEI	8005,5545																
												06	0.2	00	04	05	06	07	08		10	11	12	13	34
								-	\Box	\perp		Jan				30./an				27.Feb	\Box		-	27.Mar	



XFEL Status XTD10





Status Southern Branch



- Some infrastructure work is still ongoing
- Electron beam line is making good progress
- Photon beam line installations are starting
 - Holes are drilled
 - Racks will arrive in February
 - XGM support is built
 - SDL is in the tunnel



Experiment Hall



- Laser interlocks for SASE1 are built
 - Tests are ongoing
- Drinking water system for SASE1 was declared safe
 - Humidification for SASE1 can start
- Smoke extraction test is scheduled for mid Jan
- All "VOB Abnahme" (formal handover) for SASE1 infrastructure including Phase I cabling should conclude in January
 - Power was already done before Xmas
- SASE2 infrastructure works go into full swing
- SASE3 infrastructure works should go into full swing in Febuary



XFEL Main Dump ready to take beam in XS1







XFEL A lot of feedthroughs have been closed

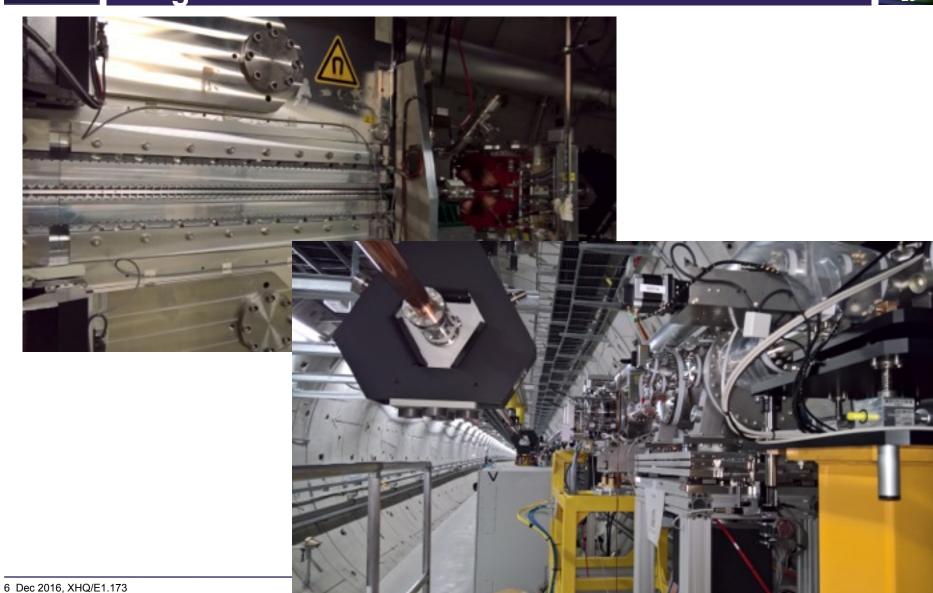






XFEL Progress in XTD2













XFEL PBS Situation in XTD1







XFEL Laser Interlocks in SASE







Photodocumentation has been updated

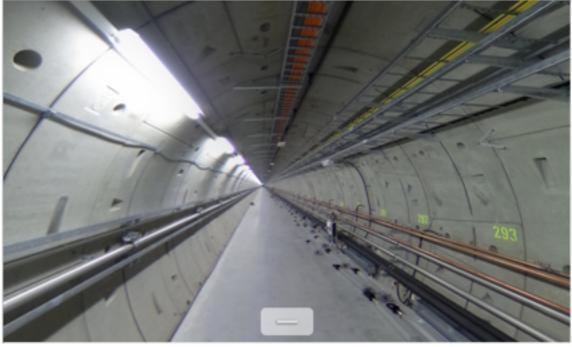




XFEL Construction Virtual Tour

iet permalin

Current virtual tour 1: XTD06 > 2016-12-22



http://xfelmd.desy.de/vtour/

EUROPEAN_XFEL. + PSU + VACUM * XHEXP1 + XHQ + XS1 + XS2 * XS3 + XS4 + XSDU01 -XSDU02 + XSE + XTD01 -XTD02 * XTD03 w XTD04 ≠ XTD05 w XTD06 -XTD07 xTD08 ≠ XTD09 w XTD10 + XTIN + XTL +

Full window

XFEL Congratulations to Jana Stammerjohann





Next Meetings



- Make appointments with Michael Malso for measurements for Control Room Furniture early next week!
- Vacuum Controls Commissioning Task Force and Tunnel Coordination
 - Today 09:30 after TechMeet in XTOB
- Final design review of SASE3 laser interlocks
 - Monday
- Meeting with Caverion&Spetec on details of AC curtains and plenums in SASE3
 - Tuesday 10:00 in XTOB
- Next XHEXP1 hall coordination meeting
 - Friday, 13 Jan 8:30