

		Date	Subject	Measurement	Duration	Responsible	Column Density (%)	Gas composition	Remarks
CW 8	Monday	18.02.2019	--	Influence of Baffle temperature on Background			0		
	Tuesday	19.02.2019	--				0		
	Wednesday	20.02.2019	--				0		
	Thursday	21.02.2019	--	EMCS/LFCS optimization and MobSus / PrecMag commissioning		J. Behrens	0		in parallel: E-Gun commissioning - part 1
	Friday	22.02.2019	--	Ramping up all magnets to 70%			0		FBM bake out
	Saturday	23.02.2019	Alignment	EMCS/LFCS optimization	2 d	J. Behrens	0		
CW 9	Monday	25.02.2019		E-gun commissioning - part 2					Open V4
	Tuesday	26.02.2019	E-Gun	Finding e-gun beam	4 d	J. Behrens	0		
	Wednesday	27.02.2019		Optimization of count rate (LDLS / Laser)					E-Gun program partially with PS
	Thursday	28.02.2019		Determine zero angle					
	Friday	01.03.2019	day	Test of detection equipment	4 h	M. Schlösser	0		RW UV-illumination always on, can be shadowed mechanically
	Saturday	02.03.2019	night	Reference E-Loss measurement	12 h	L. Schimpf	0		
CW 10	Sunday	03.03.2019	RW WF	RearWall Work Function with Fowler-scan	12 h	R. Sack	0		
			Background	Background reference	12 h	F. Fränkle	0		
				Ramping CD from 0,1% to 5 %	1h		5	T2	Stepwise ramping
	Monday	04.03.2019	day	PS cone and ICE measurements	6h	M. Schlösser	5	T2	
			night	Insitu WorkFunction	0,5 h		5	T2	
			Background	Neutralisation test (before Background)	10 h	F. Fränkle	5	T2	
CW 11	Tuesday	05.03.2019	day	Background V4 closed	10 h	M. Schlösser	5	T2	
			night	Neutralisation test (after Background)	0,5 h		5	T2	
			Penning Trap	Investigation of Penning Trap PS-MS	4 h	F. Fränkle	5	T2	
			CD	Column Density at 5%	1 h	A. Marsteller	5	T2	
			Alignment	First Test of EMCS setting with e-gun	0,5 h	J. Behrens	5	T2	
			night	Neutralisation test	0,5 h	M. Schlösser	5	T2	
CW 12	Wednesday	06.03.2019	day	Beta Scan	16 h	M. Schlösser	5	T2	
			night	Repeat Beta scan for KIT review	4,5 h	F. Fränkle	5	T2	Stepwise ramping
			CD	Neutralisation test (before Background)	1 h	M. Schlösser	5	T2	
			HV-Ripple	Column Density at 5%	1,5 h	A. Marsteller	5	T2	
			Test HV-Ripple	Test HV-Ripple	15 min	F. Fränkle	5	T2	
			night	Beta Scan	10 h	F. Fränkle	5	T2	
CW 13	Thursday	07.03.2019	day	Neutralisation test (after Background)	0,5 h	M. Schlösser	5	T2	
			night	Ramping CD from 5 % to 15 %	1 h		15	T2	
			PS cone and ICE measurements	Insitu WorkFunction	5 h	M. Schlösser	15	T2	
			KIT review (2pm MS-HV down -> 17:30)	Beta "scan" with PS& e-gun stability	2 h	all	15	T2	
			night	Neutralisation test (before Background)	0,5 h	M. Schlösser	15	T2	
			Background	Background V4 closed	10 h	F. Fränkle	15	T2	
CW 14	Friday	08.03.2019	day	Neutralisation test (after Background)	0,5 h	M. Schlösser	15	T2	
			Penning Trap	Investigation of Penning Trap PS-MS	4 h	F. Fränkle	15	T2	
			Plasma	PRO-Katrin	3,5 h	M. Schlösser	15	T2	
			CD	Column Density at 15%	1,5 h	A. Marsteller	15	T2	
			night	Neutralisation test (after Background)	0,5 h	M. Schlösser	15	T2	
			night	E-Loss with Laser (ToF) and LDLS (integral)	36 h	L. Schimpf	15	T2	
CW 15	Saturday	09.03.2019	day	Ramping CD from 15 % to 50 %	1 h		50	T2	Stepwise ramping
			night	PS cone and ICE measurements	6 h	M. Schlösser	50	T2	
			Insitu WorkFunction	Neutralisation test (before Background)	0,5 h		50	T2	
			Background	Background V4 closed	12 h	F. Fränkle	50	T2	
			night	Neutralisation test (after Background)	0,5 h	M. Schlösser	50	T2	
			Penning Trap	Investigation of Penning Trap PS-MS	4 h	F. Fränkle	50	T2	
CW 16	Monday	11.03.2019	day	Plasma	PRO-Katrin	5 h	M. Schlösser	50	T2
			night	E-Loss with Laser (integral)	12 h	L. Schimpf	50	T2	
			CD	Column Density at 50 %	4 h	A. Marsteller	50	T2	
			Plasma	PRO-Katrin	3 h	M. Schlösser	50	T2	
			night	E-Loss with LDLS (ToF)	10 h	M. Schlösser	50	T2	
			CD	Column Density at 50 %	1 h	A. Marsteller	50	T2	
CW 17	Tuesday	12.03.2019	day	Neutralisation test	0,75 h		50	T2	
			night	Ramping CD from 50 % to 100 % (10% steps)	2 h				
			PS cone and ICE measurements	Insitu WorkFunction	6 h	M. Schlösser	100	T2	
			Background	Beamline T2 density with DPS monopoies	1 h		100	T2	
			night	Optimisation of ring electrodes	0,5 h		100	T2	
			Background	Neutralisation test (before Background)	12 h	F. Fränkle	100	T2	
CW 18	Wednesday	13.03.2019	day	Beta scan combined with background V4 open	0,5 h	M. Schlösser	100	T2	
			night	Neutralisation test (after Background)	0,5 h	M. Schlösser	100	T2	
			Penning-Trap	Investigation of Penning-Trap PS-MS	4 h	F. Fränkle	100	T2	
			CD	Column Density	4 h	A. Marsteller	100	T2	
			Plasma	PRO-Katrin	3 h	M. Schlösser	100	T2	
			Background	E-Loss with Laser (ToF) / Background	10 h	L. Schimpf	100	T2	
CW 19	Thursday	14.03.2019	day	Investigation / Diagnostic of injection blocking	2 h	M. Sturm	100	T2	
			night	Investigation of DPS el. Dipoles (T2 density in DPS)	2 h	M. Schlösser	100	T2	
			Background	Investigation of desorption rate with UV-illumination on RW and without	4 h	M. Schlösser	100	T2	
			night	E-Loss with LDLS (integral)	4 h	L. Schimpf	100	T2	
			Plasma	PRO-Katrin	24 h	F. Fränkle	100	T2	
			Background	Beta scan (1h) / Background / penning Wiper / at nominal PS voltage	24 h	F. Fränkle	100	T2	
CW 20	Friday	15.03.2019	day	Column Density stability	24 h				
			Background	Beta scan (1h) / Background / penning Wiper / at nominal PS voltage	24 h	F. Fränkle	100	T2	
			night	Neutralisation test and emptying traps	1 h	M. Schlösser	100	T2	
			Plasma	Investigation of desorption rate with UV-illumination on RW and without	2 h	M. Schlösser	100	T2	
			night	Sterile neutrino investigations		A. Huber	0 - 0,1	T2	
			Alignment	Mapping RW on FPD		M. Schlösser	0	--	
CW 21	Tuesday	19.03.2019	day	First Test of WGTs mas, Dipole control via ORCA		C. Rodenbeck	0	--	
			RW	Investigation of desorption rate with UV-illumination on RW and without		M. Schlösser	0	--	
			Background			F. Fränkle	0	--	
			day	Ramping down WGTs/RS Magnets and warming up WGTs Beamtube to 100K		A. Jansen	0	--	
			night	Investigation of PS HV issues		F. Fränkle	0	--	
			Background	SDS background		F. Fränkle	0	--	
CW 22	Thursday	21.03.2019	day	Ramping up WGTs/RS magnets		W. Gil	0	--	
			night	Calibration of PS HV		F. Fränkle	0	--	
			day	FPD calibration		F. Fränkle	0	--	
			night	Investigating RW-Desorption		M. Schlösser	0	--	
			day	Purging injection capillary at 30K		M. Sturm	100	T2	
			night	Test of RW insitu WF measurement		M. Aker	100	T2	
CW 23	Friday	22.03.2019	day	SDS background		F. Fränkle	100	T2	V4 closed
			night						
			day						
			night						
			day						
			night						
CW 24	Saturday	23.03.2019	day						
			night						
			day						
			night						
			day						
			night						
CW 25	Sunday	24.03.2019	day						
			night						
			day						
			night						
			day						
			night						
CW 26	Monday	25.03.2019	day						
			night						
			day						
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			day						
			night						
CW 27	Tuesday	26.03.2019	day						
			night						
			day						
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			day						
			night						
CW 28	Wednesday	27.03.2019	day						
			night						
			day						
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			day						
			night						
CW 29	Thursday	28.03.2019	day						
			night						
			day						
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			day						
			night						
CW 30	Friday	29.03.2019	day						
			night						
			day						
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			day						
			night						
CW 31	Saturday	30.03.2019	day						
			night						
			day						
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			day						
			night						
CW 32	Sunday	31.03.2019	day						
			night						
			day						
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			day						
			night						
CW 33	Monday	01.04.2019	day						
			night						
			day						
			night						
			day						
			night						
CW 34	Tuesday	02.04.2019	day						
			night						
			day						
			night						
			day						
			night						
CW 35	Wednesday	03.04.2019	day						
			night						
			day						
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			day						
			night						
CW 36	Thursday	04.04.2019	day						
			night						
			day						
			night						
			day						
			night						

	Friday	05.04.2019	day	HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
	night		Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
Saturday	06.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
Sunday	07.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
CW 15	Monday	08.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
	Tuesday	09.04.2019	day	ions	Clear Penning Traps / Neutralisation	2 h	M. Schlösser	25	T2	
				HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				CD	Column Density	2 h	A. Marsteller	25	T2	
	night		Beta Scan	Beta Scan	4 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
	Wednesday	10.04.2019	day	Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
				Plasma	RW Voltage investigations -183.3 mV	4 h	M. Schlösser	25	T2	
				Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2	
	Thursday	11.04.2019	night	Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
				Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
				ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
	Friday	12.04.2019	day	HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				Plasma	RW Voltage investigations	1 h	M. Schlösser	25	T2	
Beta Scan				Beta Scan	10 h	T. Lasserre	25	T2		
Saturday	13.04.2019	night	Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
Monday	15.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
CW 16	Tuesday	16.04.2019	day	ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
				HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				GD	Column-Density	24h	A. Marsteller	25	T2	
	night		FPD	FPD Calibration	5 h	F. Fränkle	25	T2		
			MoS	Test of coupling MoS to MS-HV	5 h	C. Rodenbeck	25	T2		
			Beta Scan	Beta Scan	6 h	T. Lasserre	25	T2		
	Wednesday	17.04.2019	night	Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2	
				Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
				ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
	Thursday	18.04.2019	day	--	Topping up Loops-system	0,5 h	M. Sturm	25	T2	
				CD	Topping up Injection pressure	1 h	M. Sturm	25	T2	
				Beta Scan	Beta Scan	9 h	T. Lasserre	25	T2	
	Friday	19.04.2019	night	Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2	
				Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
				Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
Saturday	20.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
Sunday	21.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	Easter	
CW 17	Monday	22.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
	Tuesday	23.04.2019	day	Beta Scan	Beta Scan	8 h	T. Lasserre	25	T2	
				ions	Clear Penning Traps	0,2 h	F. Friedel	0	T2	
				RW	Rear Wall ED scan with "empty" source	1,8 h		0	T2	
	night		Ramping	Ramping CD from 0 % to 25 % with adjusted pressure setpoint (5% increase)	2 h	M. Sturm	25	T2		
			Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
			HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2		
	Wednesday	24.04.2019	day	ions	Clear Penning Traps / Neutralisation	1,5 h	M. Schlösser	25	T2	
				CD	Column Density	2 h	A. Marsteller	25	T2	
				Beta Scan	Beta Scan	8 h	T. Lasserre	25	T2	
	Thursday	25.04.2019	night	Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2	
				Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
				ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
	Friday	26.04.2019	day	HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				MoS	Coupling of MoS to MS-HV	1 h	D. Hinz	25	T2	
Beta Scan				Beta Scan	4h	T. Lasserre	25	T2		
Saturday	27.04.2019	night	CD	adjust injection pressure to keep CD in range	0,5 h	A. Marsteller	25	T2		
			Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
Sunday	28.04.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
Monday	29.04.2019	night & day morning	Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
CW 18	Tuesday	30.04.2019	day	CD	adjust injection pressure to keep CD in range	0,3 h	A. Marsteller	25	T2	
				ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
				HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
	night		--	Column-Density	2 h	A. Marsteller	0	T2		
			--	Ramp magnets, Warm up WGTS to 100K (incl. WGTS magnet ramping)	8 h	T. Lasserre	0	T2		
			--	Warm up WGTS to 100K, Ramp magnets	12 h	T. Lasserre	0	T2	May 1 st	
	Wednesday	01.05.2019	day	--	Warm up WGTS to 100K	24 h	T. Lasserre	0	T2	
				--	Cooling down WGTS to 30K	12h	T. Lasserre	0	T2	
				--	WGTS-#1500-calibration	2h	A. Jansen	0	T2	
	Thursday	02.05.2019	day	e-Gun	E-Gun characteristics (angular dependencies / energie spread), Test of mag. dipole control (RS -> WGTS)	2h	L. Schimpf	0	T2	
				Ramping up	Ramping CD from 0 % to 25 %	2h	M. Schlösser	25	T2	
				GD	Column-Density	2h	A. Marsteller	25	T2	
	night		e-Gun	E-Gun characteristics (angular dependencies / energie spread)	2h	L. Schimpf	25	T2		
			Beta-Scan	Beta-Scan	24h	T-Lasserre	25	T2		
			ions	Clear-Penning-Traps	0,5 h	M. Schlösser	25	T2		
Friday	03.05.2019	day	HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2		
			Beta Scan	Beta Scan	10 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
Saturday	04.05.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
Sunday	05.05.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
Monday	06.05.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2		
CW 19	Tuesday	07.05.2019	day	ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
				HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				CD	Column Density	2 h	A. Marsteller	25	T2	
	night		FPD	FPD Calibration	5 h	F. Fränkle	25	T2		
			Beta Scan	Beta Scan	6 h	T. Lasserre	25	T2		
			Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2		
	Wednesday	08.05.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
	Thursday	09.05.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
	Friday	10.05.2019	day	ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
				HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				Beta Scan	Beta Scan	10 h	T. Lasserre	25	T2	
	Saturday	11.05.2019	night	Beta Scan	Beta Scan	12 h	T. Lasserre	25	T2	
				Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
				Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
	Sunday	12.05.2019		Beta Scan	Beta Scan	24 h	T. Lasserre	25	T2	
CW 20	Monday	13.05.2019	day	ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
				SAP-Beta Scan	SAP-Beta Scan / Background	5 h	C. Weinheimer	25	T2	
				SAP-Beta Scan	SAP-Beta Scan	16 h	C. Weinheimer	25	T2	
	night		HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2		
			--	Ramping Magnets to 51% 70% / SDS 60%	3 h	W. Gil	25	T2		
			SAP-Beta Scan	SAP-Beta Scan / Background	7 h	C. Weinheimer	25	T2		
	Tuesday	14.05.2019	day	SAP-Beta Scan	SAP-Beta Scan	12 h	C. Weinheimer	25	T2	
				SAP-Beta Scan	SAP-Beta Scan	24 h	C. Weinheimer	25	T2	
				SAP-Beta Scan	SAP-Beta Scan	24 h	C. Weinheimer	25	T2	
	Wednesday	15.05.2019		SAP-Beta Scan	SAP-Beta Scan	24 h	C. Weinheimer	25	T2	
	Thursday	16.05.2019		SAP-Beta Scan	SAP-Beta Scan	24 h	C. Weinheimer	25	T2	
	Friday	17.05.2019	day	ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
				HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				CD / E-Gun	Preparation for Column Density and Alignment measurements	8 h	A. Marsteller / L. Schimpf	25	T2	
	Saturday	18.05.2019	night	CD	Column Density	12 h	A. Marsteller	25	T2	
CD				Column Density	24 h	A. Marsteller	25	T2		
CD				Column Density	12 h	A. Marsteller	25	T2		
Monday	20.05.2019		E-Loss	E-Loss with LDS (integral)	12 h	L. Schimpf	25	T2		
CW 21	Tuesday	21.05.2019	day	ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2	
				HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2	
				CD	Column Density	7 h	A. Marsteller	0-100	T2	
	night		CD	Column Density	24 h	A. Marsteller	100	T2		
			CD	Column Density	24 h	A. Marsteller	0-100	T2		
			--	Warm up WGTS to 100K	5 h	A. Jansen	0	T2		
	Thursday	23.05.2019	day	E-Gun	E-Gun characteristics (angular dependencies / energie spread)	5 h	J. Behrens	0	T2	
				E-Gun	E-Gun characteristics (angular dependencies / energie spread)	12 h	J. Behrens	0	T2	
				E-Gun	E-Gun characteristics (angular dependencies / energie spread)	4 h	J. Behrens	0	T2	
	Friday	24.05.2019	night	Alignment	Field mapping (regular analysis plane)	4 h	J. Behrens	0	T2	
				Alignment	Field mapping (regular analysis plane)	16 h	J. Behrens	0	T2	
				Alignment	Field mapping (regular analysis plane)	24 h	J. Behrens	0	T2	
	Saturday	25.05.2019		Alignment	Field mapping (regular analysis plane)	24 h	J. Behrens	0	T2	
	Sunday	26.05.2019		Alignment	Field mapping (regular analysis plane)	24 h	J. Behrens	0	T2	
	CW 22	Monday	27.05.2019	day	Alignment	Field mapping (regular analysis plane)	6 h	J. Behrens	0	T2
Tuesday		28.05.2019	day	HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2 / Kr	
				Ramping up	Ramping up Column Density to 25 % and Kr injection (Test of stabilised injection in Kr-Mode)	8 h	M. Schlösser	25	T2 / Kr	
				Plasma / Krypton	Krypton measurements	14 h	M. Machatschek	25	T2 / Kr	
Wednesday		29.05.2019	night	Plasma / Krypton	Krypton measurements	14 h	M. Machatschek	25	T2 / Kr	
				Plasma / Krypton	Krypton measurements	14 h	M. Machatschek	25	T2 / Kr	
				ions	Clear Penning Traps	0,5 h	M. Schlösser	25	T2 / Kr	
Thursday		30.05.2019	day	HV	Low Voltage calibration	0,5 h	C. Rodenbeck	25	T2 / Kr	
				CD	Column Density	2 h	A. Marsteller	25	T2 / Kr	
				Plasma / Krypton	Krypton measurements	8 h	M. Machatschek	25	T2 / Kr	
Friday		31.05.2019	night	Plasma / Krypton	Krypton measurements	12 h	M. Machatschek	25	T2 / Kr	
				Plasma / Krypton	Krypton measurements	24 h	M. Machatschek	25	T2 / Kr	
				Plasma / Krypton	Krypton measurements	24 h	M. Machatschek	25	T2 / Kr	
Saturday		01.06.2019		Plasma / Krypton	Krypton measurements with SAP	4 h	C. Weinheimer	0	Kr	
Sunday		02.06.2019		Alignment	Field mapping (SAP)	6 h	J. Behrens	0		
CW 23	Monday	03.06.2019	day	Alignment	Field mapping (SAP)	16 h	J. Behrens	0		
	Tuesday	04.06.2019	night	Alignment	Field mapping (SAP)	24 h	J. Behrens	0		
	Wednesday	05.06.2019		Alignment	Field mapping (SAP)	14 h	J. Behrens	0		