

W	Week 6							Week 7							Week 8							Week 9						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
U232, Nishio/Hofmann, 34S (ECR), 5.2 MeV/u, 1 µA, Y6							U211, Sulignano / Heßberger, 58Ni (PIG), 4.5-5.9, 8.6, 11.4, 2 ms, 25 Hz, Y7							UMAT, C.Trautmann, Au, 11.4 MeV/u, 50 Hz, 2 ms, X0			U000, Ta (MEVVA) machine experiments				UNILAC-Inbetriebnahme							
B, commissioning M-Branch						a)	b)	c)		d)																		
S338, Herrmann/Leifels, 58Ni (PIG), 1.9 AGeV (maximum rigidity), ~5-10 10e6/spill, long extraction (max), HTB														e)	f)	S000, Ta (MEVVA) machine experiments				SIS-Inbetriebnahme			g)					
E075, Herfurth, 58Ni (PIG), 4 MeV/u, 1E6/cycle (ESR), Cooling and deceleration in ESR, HITRAP							E067, Karpuk/Nörtershäuser, 7Li+ (ECR), 58.86 MeV/u, >10 µA in ESR, ESR																					

a) B, Forck/Becker, 34S (EZR), energy and int. as for Y7, X2

b) U239, Düllmann, 58Ni (PIG), ~4.5-5.5 MeV/u, 1 particle-microAmp (pulse), 5 ms / 5 Hz, X8 TASCA

c) UBIO, Scholz, 58Ni (PIG), 11.4 MeV, X6

d) U239, Düllmann, 58Ni (PIG), ~4.5-5.5 MeV/u, 1 particle-microAmp (pulse), 5 ms / 5 Hz, X8 TASCA

e) PT16, Enghardt/Schardt, 7Li3+ (ECR), 100 - 300 AMeV, 2 e8/spill, time regime as in therapy, 2 s beam, 3 s pause, HTM, HTA

f) SMAT, Trautmann, Au, 200 MeV/u, max., HTA

g) S338, Herrmann/Leifels, 96Ru (PIG), 1.69 AGeV (42+), 5e6/spill, long extraction 10s, HTB

Block 2 / 2009

March 2009

Schedule as of 06-Mrz-2009

W	Week 10								Week 11						Week 12						Week 13						Week				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	U236, Jungclaus/Wollersheim, ECR, 122, 124Sn, 3.8 MeV/u, 1.2 pA, X7										U225, Heßberger, 54 Cr (ECR), 4.6 - 5.1 MeV/u, 1000 pA 50 Hz, 5 ms, Y7						UMAT, C.Trautmann, Au, PIG, 11.4 MeV/u, 5 Hz, long pulses (4 ms), X0														
										UBIO, Scholz, Ru, 11.4 MeV, X6	B/UMAT, commissioning M-Branch, Ru, Cr, X0						UBIO, Scholz, Cr, 11.4 MeV, X6														
S338, Herrmann/Leifels, 96Ru (PIG), 1.69 AGeV (42+), 5e6/spill, long extraction 10s, HTB																						E055/E048, Walker/Litvinov, 197Au, 600 MeV/u, 5e9 p/spill, PIG, SIS cooler, ESR cooler, fast extraction, FRS, ESR									
E062, Heil/Litvinov, 96Ru (PIG), 200 MeV/u, >5e6/spill, SIS cooler, fast extraction, ESR										FRS000, Nociforo, 96Ru, 200-500 MeV/u, 5e6 /spill (SIS), slow extraction (3-5 s), FRS, S4 (HFS)								SMAT, Trautmann, Au, 200 MeV/u, max., HTA	S367, Tauschwitz, Au, 200 MeV/u, > 4E9/bunch, fast extraction, 1 bunch, HHT	S304/S357, Ducret/Simon, 197Au, 1000 MeV/u, PIG, 30000/spill, 10 s extraction, HTC											

Week 14					Week 15								Week 16						Week 17						Week 18										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
U182, Kratz/Schaedel, Ar, PIG, 6-9 MeV/u, 2-3 pμA (Pulse), 5 ms, 50 Hz, X8 TASCA					U238, Block, 48Ca, ECR, 4-5 MeV/u, 1 ua (particle), long pulses, 5ms, 50 Hz, Y7 SHIPTRAP								U000, machine experiments		B, U.Scheeler/U.Scheeler, H2+, 3,6-11.4MeV/u, 20μA 5Hz, 1ms, X2/Y7										a)										
U226, M. Roth/Abel Blazevic, Ar, 4.0 MeV/u, 500 pA, 1 ms, buncher, short microbunches, Z6					UBIO, Scholz/Scholz, 136Xe, 11.4 MeV, X6																														
S356/S000/U000, O. Boine-Frankenheim/G. Franchetti, Ar40, MUCIS, 11.4 MeV/u, SIS18 injection energy, max. intensity					S304, Ducret/Simon, 136Xe54+, 500, 1000 MeV/u, PIG, 30000 / spill, 10 s extraction, HTC								S349, Fabbietti/Leifels, p, 3.5 GeV, ECR, ~5-10 10e7/spill, long extraction (max), HTB						S000, Ta (MEVVA) machine experiments																
					E075, Herfurth, 136Xe, PIG, 4 MeV/u, 1E6/cycle (ESR), Cooling and deceleration in ESR, HITRAP										STHE, Schardt/Schardt, 1H, 200 MeV/u, 1e3-1e8/spill, 8 s extraction, HTA																				

a ) U000, machine experiments

/ 2009	May 2009	Schedule as of 04-Mai-2009
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Week 18			Week 19							Week 20							Week 21							Week 22							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
										U000			UMAT, Daniel Severin/Daniel Severin, Xe (ECR), 11.4 MeV/u, 50 Hz, long pulses, Gleichzeitiger Betrieb von X0 und M-Zweig , X0							U239, Düllmann/Düllmann, 48Ca , ECR, 4.5-5.5 MeV/u, 4 particle-microAmp (pulse), 5 ms / 50 Hz, X8 TASCA											
																		a)													

a ) U239, Düllmann/Düllmann, 48Ca , ECR, 4.5-5.5 MeV/u, 4 particle-microAmp (pulse), 5 ms / 50 Hz, X8 TASCA

Block 3 / 2009

June 2009

Schedule as of 04-Jun-2009

Week 23							Week 24							Week 25							Week 26							Week				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
U239, Düllmann/Düllmann, 48Ca , ECR, 4.5-5.5 MeV/u, 4 particle-microAmp (pulse), 5 ms / 50 Hz, X8 TASCA																																
							U251, Heinz/Heinz, 48Ca, 5.9 MeV/u, 5 Hz, Y7																									



Week		Week 32					Week 33					Week 34					Week 35					W									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
B, W. Barth, 40Ar MUCIS, 11.4MeV/u, UNILAC	U000, machine experiments					UBIO, Scholz, C, 11.4 MeV, X6					UMAT, Voss/Voss, 12C, 4.8MeV/u, 50 Hz, long pulses, X0					UBIO, Scholz, 56Fe, 11.4 MeV, 5 Hz, 1 ms, X6					a)					b)					U243, Yakushev/Düllmann, 48Ca (ECR), ~4.5-5.5 MeV/u, 4 particle-microAmp (pulse) in X8, >=5 ms / 50 Hz, X8 TASCA
				B, P.Forck/E.Gu etlich, 40Ar, 11.4, 1mA, 1Hz, 1ms, X2					UMAT, Severin/Trautmann, C, 11.4 MeV/u, Intensität nach Absprache mit K. Voss. M-branch																		c)		U238, Block, 48Ca, 4-5 MeV/u, long pulses: 5ms, 5 Hz, Y7 SHIPTRAP		
B, U.Scheeler, 12C, SIS	S000, Spiller, 40Ar MUCIS, SIS					SBIO, Schardt/Schardt, ECR, 12C, 80-400 MeV/u, 1e3 - 1e9/spill, therapy conditions (Cave M), HTM / HTA					d)					S319, Saito/Saito, 6Li, ECR, 2000 MeV/u, 1,2e8/spill, HTC					S349, Fabbietti/Leifels, p, MUCIS, 3.5 GeV, ~5-10 10e7/spill, long extraction (max), HTB										
														e)					S272, Tanihata & Kanungo/Geissel, 40 Ar, PIG, 750 MeV/nucleon, 1e7/spill, FRS					f)							

a) U243, Yakushev/Düllmann, 40Ar, PIG, ~4.5-5.5 MeV/u, 4 particle-microAmp (pulse) in X8, >=5 ms / 50 Hz, X8 TASCA

b) U218, Doornenbal/Gorska, Ca, 3.6MeV/u, <1pA, X7

c) E028, Egelhof/Egelhof, 48Ca, 3,6 MeV/u, 5 Hz, minimum energy width, Z7

d) SBIO, Schardt/Schardt, 56Fe, PIG, 200 - 1500 MeV/u, 1e3 - 1e8/spill, slow extraction, HTM /HTA

e) FRS000, Nociforo/Gorska, Fe, 300-500 MeV, 1e4/spill -1e8/spill, slow extraction, FRS

f) S366, Heuser/Niebur, P, 2,5GeV, long extraction, 10 s, HTD

Block4 / 2009						September 2009										Schedule as of 11-Sep-2009									
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Week 36						Week 37						Week 38						Week 39						Week 40						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
U243, Yakushev/Düllmann, 48Ca (ECR), ~4.5-5.5 MeV/u, 4 particle-microAmp (pulse) in X8, >=5 ms / 50 Hz, X8 TASCA																													a)	
U238, Block, 48Ca, 4-5 MeV/u, long pulses: 5ms, 5 Hz, Y7 SHIPTRAP						B, U.Scheeler, U-PIG/MEVVA, UNILAC						U225, Heßberger/Heßberger, 48Ca, 4.4- 5.1 MeV/u, 1000 pnA, 5 Hz, 5 ms, Y7						U226, M. Roth/A. Blazeviv, Ca, mean charge state, Z6 stripper, 4.9, 1 pμA, 1 ms, Z6						b)						
S349, Fabbietti/Leifels, p, MUCIS, 3.5 GeV, ~5-10 10e7/spill, long extraction (max), HTB						S351, Yamazaki/Bräuning, U89+, MEVVA, 190 MeV/u, 1e4/s, SIS cooler, long flat extraction, HTA						S361, Bruce/Gorska, 238U73+, MEVVA, 750 MeV/u, 5e9 particles per spill, 4 s extraction. FRS.						S337, Gadea/Gorska, 238U, MEVVA, 750MeV/u, 5e9/spill, FRS, S4						S350, Benzoni/Gorska, 238U, MEVVA, 1000 MeV/u, 5x10^9 /SPILL, FRS, S4			c)			
d)		e)		S386, Schwarz/Schwarz, p, 2.5 GeV, 1e5, 10s extraction, HTD						f)						S331, Mintsev/Varentsov, U73+, 200-500 MeV/u, MAXIMUM (>2e9), preferably SIS cooler, HHT						S394, Lemmon/Leifels, U, 400MeV/u, ~5e5/spill, long extraction (10s), HTD			g)			h)		
						B, U.Scheeler, U, ESR						E080, Grisenti/Winters, 238U92+, 50-400MeV/u, 10e8 particles, ESR						E093, Thorn/Thorn, 238U91+, 100,200,400 MeV/u, normal ESR intensity, ESR						E065, Brandau/Kozhuharov, 238U, 200 MeV/u, 1e8/spill (SIS), SIS cooler, ESR						

- a ) U165, Werner/Mann, U,3 - 8MeV/u, 30.9.-1.10.: MEVVA, 1 Hz,1/2msec, 2.10.: PIG,> 100 pnA , 50 Hz, 5 ms, X4
- b ) E028, Egelhof/Egelhof, 48Ca, 3,6 MeV/u, 5 Hz, minimum energy width, Z7
- c ) SMAT, Schuster/Trautmann, U, 200 MeV/u, max. intensity, HTA
- d ) S366, Heuser/Niebur, P, 2,5GeV, long extraction, 10 s, HTD
- e ) S358, Khanzadeev/Egelhof, protons, 100 MeV/u, 200 Mev/u, 1000/spill, FRS
- f ) S320, Bieniosek/Varentsov, U, 200-500 MeV/u, >2e9 for U, fast extraction, cooler, bunch compression, HHT
- g ) S321, Ulrich/Varentsov, U, 200-500 MeV/u, MAXIMUM (>2e9), fast extraction, cooler, bunch compression, HHT
- h ) S367, Tauschwitz/Tauschwitz, U 73+, 250 MeV/u, > 2E9/bunch, fast extraction, 1 bunch, bunch compression, HHT

Week 40				Week 41							Week 42						Week 43						Week 44									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
a)		UMAT, Severin/Severin, U, PIG, 5,9 MeV/u, 50 Hz, long pulses, M-Zweig									b)		U000, machine experiments																			
		UBIO, Scholz, U238, 5,9 MeV, X6		UMAT, Severin/Severin, U, 5,9 MeV/u, 50 Hz, long pulses, X0																												
c)		S319, Saito/Saito, 6Li, ECR, 2000 MeV/u, 1,2e8/spill, HTC											S000, Spiller, 238U MEVVA, SIS		S392, J. Kurcewicz, 238U73+, 700-1000 MeV/u, 1e10/spill, slow extraction, FRS						d)											
e)		FRS000, Nociforo/Gorska, U, PIG, 300-500 MeV, 1e4/spill -1e8/spill, slow extraction, FRS			U249, Berdermann, 6Li, two energies: 1 GeV, 3 GeV, 1e6/spill, spill = 10 s, HTA																											
f)																																

a) U165, Werner/Mann, U,3 - 8MeV/u, 30.9.-1.10.: MEVVA, 1 Hz, 1/2msec, 2.10.: PIG,> 100 pnA , 50 Hz, 5 ms, X4

b) B, U.Scheeler, 238U4+, 11.4MeV/u, UNILAC

c) SMAT, Schuster/Trautmann, U, 200 MeV/u, max. intensity, HTA

d) S000, Spiller, 238U MEVVA, SIS, Ende am 23.10.2009 um 14:00 Uhr

e) S367, Tauschwitz/Tauschwitz, U 73+, 250 MeV/u, > 2E9/bunch, fast extraction, 1 bunch, bunch compression, HHT

f) E065, Brandau/Kozhuharov, 238U, 200 MeV/u, 1e8/spill (SIS), SIS cooler, ESR