

1. Block / 2010

January 2010

Schedule as of 26-Jan-2010

Week 3			Week 1							Week 2							Week 3							Week 4													
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, Dahl, 40Ar Mucis/Chordis, 3,6MeV/u, UNILAC							U000, Groening, 40Ar Mucis/Chordis, 3,6MeV/u, UNILAC						

Week 5							Week 6						Week 7						Week 8																											
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																			
			a)	UBIO, Scholz, Au, 11.4 MeV, X6	UMAT, C. Trautmann, 197 Au, 11.4 MeV/u, möglichst hohe Pulslänge, X0						UMAT, Voss, K- O, 197 Au, 4.8 MeV/u, 45Hz, lange Pulse, X0			UBIO, Scholz, Au, 11.4 MeV, X6			U-ESA, Kozhuharov/Kr ämer, 197Au, 11,4 MeV/u, 5 ms, X3																													
			UMATP, Severin/Bender, 197 Au, 3.6, 5.9, 11.4 MeV/u, 5Hz, lange Pulse, M-branch																																											
											B, Gerhard, 40Ar comm. HLI-RFQ																																			

a) B, U.Scheeler, 197Au, 11,4MeV/u, UNILAC

2. Block / 2010

March 2010

Schedule as of 19-Mrz-2010

Week 9							Week 10							Week 11						Week 12						Week 13				
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, Dahl, 40Ar PIG, Inbetriebnahme UNILAC			B, Hochstrombetrieb, 238U / MEVVA, 11,4MeV/u, 1Hz / 0,15ms, UNILAC							U000, Barth 238U MEVVA				UBIO, Scholz, Ne, 11.4 MeV, X6		B, Scheeler, 58Ni, 3,6MeV/u, Inbetr. SD, X7				U246, Leske/Wollersheim, 86Kr, MUCIS, 3.0 MeV/u, 1pnA, X7						a)				
				U000, Walasek-Höhne, 238U MEVVA, 11.4 MeV/u, X2												B, Gerhard, 40Ar EZR comm. HLI-RFQ						b)								
			B, U.Scheeler, 40Ar PIG, 200 MeV/u, SIS			S000, P.Spiller, 238U 28+ /73+, 200MeV/u, SIS								S272, Tanihata & Kanungo/Geissel, 58Ni, MEVVA, 500 MeV/nucleon, 1e5/spill, FRS		S272, Tanihata & Kanungo/Geissel, 86Kr, MUCIS, 500 MeV/nucleon, 1e10/spill, FRS														
											S319, Saito, 20Ne, PIG, 2000 MeV/u, 1e8/spill, HTC											c)								
											E000, Steck, 20Ne, 400 MeV/u, 1e8/spill from SIS, SIS cooler, ESR						E075, Herfurth, 86Kr, 30 MeV/u hinter SIS, 4 MeV/u hinter ESR, 1e6 / cycle hinter ESR, HITRAP			E046, Stöhlker, 86Kr, 30 MeV/u, 1e8 particles, SIS cooler, ESR										

a) U238, Block, 48Ca, ECR, 4-5 MeV/u, long pulses: 5ms, 5 Hz, Y7 SHIPTRAP

b) U241, Andersson /Düllmann, 48Ca10+ (ECR), 4.4 - 4.9 MeV/u, 4 pmicroA (pulse) at X8, 5 ms / 5 Hz, X8 TASCA

c) U249, Berdermann, 86Kr, 200 AMeV, 1e7/spill, 10s extraction, HTA

2. Block / 2010

April 2010

Schedule as of 29-Apr-2010

Week 13				Week 14							Week 15							Week 16						Week 17														
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									
U225, Heßberger/Heßberger, 40Ar, 4.5-4.9 MeV/u, 2000 pnA 50 Hz (Ar), 5 ms, X8												a)	B, Gerhard, He, 1,4MeV/u, HLI																						b)			
															UMAT, Severin/Bender, 152Sm, (11,4, dann 4.8) MeV/u, 5 Hz, 1ms, X0, dann M-Zweig				c)			UMAT, Voss, 152Sm 5Hz 1ms, 4.8MeV/u, X0																
S272, Tanihata & Kanungo/Geissel, 86Kr, MUCIS, 500 MeV/nucleon, 1e10/spill, FRS											S-ESA, Schardt, 7Li, (100-300) MeV/u, 1e3 - 1e8/spill, HTA			S-ESA, Durante/Schardt, 58Ni, MEVVA, (400-1000) MeV/u, 1e3 - 1e8/spill, HTA																								
d)																					S394, Lemmon/Leifels, 152Sm, ~5e5/spill, long extraction (10s), same energy as E082, HTD																	
e)	f)	g)	E075, Herfurth, 86Kr, 30 MeV/u hinter SIS, 4 MeV/u hinter ESR, 1e6 / cycle hinter ESR, HITRAP				E067, Novotny, 7 Li+, PIG, 58.86 MeV/u, >10 muA in ESR, ESR			E082, Litvinov, 152Sm (PIG), 450-600 MeV/u, 1e9 particles/spill, SIS & ESR Cooler, stochastic pre-cooling, fast extraction, ESR																												

a) UMAT, Voss, 7Li, 4.8, >=25Hz, X0

b) U241, Andersson /Düllmann, 48Ca10+ (ECR), 4.4 - 4.9 MeV/u, 4 pmicroA (pulse) at X8, 5 ms / 50 Hz, X8 TASCA

c) UMAT, Severin/Trautmann, 152Sm, 4,8 MeV/u, 5Hz, 1ms, X0

d) U249, Berdermann, 86Kr, 200 AMeV, 1e7/spill, 10s extraction, HTA

e) E046, Stöhlker, 86Kr, 30 MeV/u, 1e8 particles, SIS cooler, ESR

f) E071, Hagmann, 86Kr, 30 MeV/u, 1e8 particles, SIS cooler, ESR

g) E081, Hagmann, 86Kr, 30 MeV/u, 1e8 particles, SIS cooler, ESR

2. Block / 2010									May 2010									Schedule as of 05-Mai-2010					
-----------------	--	--	--	--	--	--	--	--	----------	--	--	--	--	--	--	--	--	----------------------------	--	--	--	--	--

Week		Week 18								Week 19								Week 20								Week 21						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				
U241, Andersson /Düllmann, 48Ca10+ (ECR), 4.4 - 4.9 MeV/u, 4 pμA (pulse) at X8, 5 ms / 50 Hz, X8 TASCA												U238, Block, 48Ca, ECR, 4-5 MeV/u, long pulses: 5ms, 50 Hz, Y7 SHIPTRAP												a)										
				b)					c)		d)			e)			f)			g)			h)											
				SMAT, Schuster, 238U, 150-350 MeV/u, 3e8/spill, HTA																				SMAT, Schuster, 238U, 150-350 MeV/u, 3e8/spill, HTA			i)		j)			k)		
		S331, Mintsev/Varentsov, 238 U, 200-500 MeV/u, > 2e9/spill, fast extraction, preferably SIS cooler, HHT										l)					m)								n)									
E082, Litvinov, 152Sm, 164Dy (PIG), 450-600 MeV/u, 1e9 particles/spill, SIS & ESR Cooler, stochastic pre-cooling, fast extraction, ESR																																		

- a) UBIO, Voss, 14N, ECR, (4.8 -8,6) MeV/u, (25-45) Hz, lange Pulse, X0
- b) UBIO, Scholz, 48Ca, 11.4 MeV, 1Hz 1ms, X6, blockmode
- c) U000, Egberts/Forck, 48Ca, 4.8-5.2 MeV/u, 700 pA, X2, blockmode
- d) UMAT, D. Severin/M. Bender, 238U, (3.6 - 8.6)MeV/u, 1 Hz 1ms, M-branch
- e) UMAT, D. Severin/C. Trautmann, 238 U, 11.4 MeV/u, 1 Hz 1ms, X0
- f) U000, Egberts/Forck, 48Ca, 4.8-5.2 MeV/u, 700 pA, X2

TO BE CONTINUED ON THE NEXT PAGE

-
- g) U000, Walasek-Höhne, 48Ca, 4.8-5.2 MeV/u, 700pnA, X2
 - h) U000, Guetlich/Forck, 238U, 11.4MeV/u, X2
 - i) SESA, Durante/Schardt, 238U, 1 GeV/u, 1e3 - 1e8/spill, HTA
 - j) SBIO,SESA,Durante/Schardt, 14N, ECR, (100-600) MeV/u, 1e3 - 1e8/spill, HTA/HTM
 - k) S339, Hartmann/Leifels, 14N, 348 u. 165 MeV/u , 1e8/spill, fast ramping, HTB
 - l) S321, Ulrich/Varentsov, 238U, 200-500 MeV/u, >2e9/spill, fast extraction, preferably SIS cooler, HHT
 - m) S397, Ulrich/Varentsov, U, 200-500 MeV/u, > 2e9/spill, fast extraction, preferably SIS cooler, HHT
 - n) S367, Tauschwitz/Tauschwitz, U 73+, 250 MeV/u, 5E9/spill, fast extraction, SIS cooler,1 bunch, bunch compression, HHT

3. Block / 2010

June 2010

Schedule as of 25-Jun-2010

Week 22						Week 23						Week 24						Week 25						Week 26							
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		
U000, 238U (MEVVA) / 40Ar (PIG) machine experiments															B, 136Xe / 48Ca, 11,4MeV/u, UNILAC	U242, Rainovski/Wollersheim, 136Xe, PIG, 4 MeV/u, 1 pA, X7						U248, Hofmann, 48Ca (EZR), 4.8 - 5.4, 1000 pA, 50 Hz, 5 ms, Y7									
																	U248, Hofmann, 48Ca (EZR), 4.8 - 5.4, 1000 pA, 5 ms, Y7														
S000, 238U (MEVVA) machine experiments																															

Week 26				Week 27							Week 28						Week 29						Week 30							
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
U248, Hofmann, 48Ca (EZR), 4.8 - 5.4, 1000 pA, 50 Hz, 5 ms, Y7																										a)	U000, Barth, 238U41+ MEVVA 11.4MeV/u, UNILAC B Experimente			
E. Gütlich, 48Ca, 4.8 and 11.4 MeV/u, 1-2 Hz, X2				b)							U226, Roth/Blazevic, 48Ca17+, 3,9 MeV/u, 2 μ A, Stripper Z-Zweig, Z6						U218, Doornenbal/Boutachkov,48Ca, 5.2 MeV/u, <10pA, X7						c)							
B, Spiller, 238U/48Ca, SIS Inbetriebnahme									S393, Aumann, 48Ca, 500 MeV/u, 2*10e3/spill, slow extraction, blockmode, HTC						d)						S000, Spiller, 238U41+ MEVVA, 300 MeV/u, SIS B- Experimente									
S333, Salabura/Pietraszko, 48Ca, 1e8/spill, 1.25 GeV/u, blockmode, HAD																														
e)											E084, Knoebel, 238U, MEVVA, 500 MeV/u, 5e9 p/spill, ESR cooler, fast extraction, ESR																			

a) UBIO, Scholz, Uranium , 11.4 MeV/u, PIG, 2-5 ms, X6

b) E028, Egelhof/Egelhof, 48Ca, 3,6 MeV/u, 5 Hz, 5ms, 5pA, Z7

c) E028, Egelhof/Egelhof, 238 U, PIG, 3,6 MeV/u, 5pA, Z7

d) SMAT, Schuster/Trautmann, 238U, MEVVA, 150-350 MeV/u, 5e8/spill, HTA, Ende am Mi-Vormittag

e) E000, Steck, 238U, 400 MeV/u, MEVVA, 1e8/spill from SIS, SIS cooler, ESR

4. Block / 2010

August 2010

Schedule as of 22-Jul-2010

W	Week 31								Week 32							Week 33						Week 34						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	
																	a)	UBIO, Scholz, C, 11.4 MeV, X6			b)				U250, Ackermann, 64Ni, ECR, 4.8-5.2 MeV/u, 700 pnA, 5.5 ms (max.), Y7						
																														c)	
																		d)	SBIO, Schardt/Scholz, 12C, EZR, 100-600, 1e3 - 1e8/spill, therapy conditions, HTM/HTA				S393, Aumann, 40Ar, MUCIS, 600 MeV/u, 2*10e10/spill, slow extraction, HTC via FRS								
																								e)	f)		g)				

a) B, EZR, 12C, 11.4 MeV/u, TK, Therapiebed.

b) UBIO PT05-11, Giesen/Schardt, 12C, 3.6 / 5.8 MeV/u, 1000 pnA, beam collimated in M3 line, M3

c) U239, Düllmann/Düllmann, 64Ni, 4.5-5.5 MeV/u, 1 particle-microAmp (pulse), 5 ms / 5 Hz, X8 TASCA

d) B, Inbetr. 200 MeV/u Therapiebedingungen, HTM

e) S000, Spiller, 40Ar MUCIS , 200 MeV/u, SIS

f) U249, Berdermann, 40Ar, 200 MeV/u, 1e8/spill, 4s extraction, HTA Blockmode

g) S333, Salabura/Pietraszko, 64Ni, 1e8/spill, 1,25 GeV/u, fast ramping, HAD

4. Block / 2010

September 2010

Schedule as of 10-Sep-2010

Week 35					Week 36					Week 37					Week 38					Week 39									
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
U250, Ackermann, 64Ni, ECR, 4.8-5.2 MeV/u, 700 pA, 5.5 ms (max.), Y7																													
a)															U252, Roth/Blazevic, 40Ar16+, 4,0 MeV/u, 2 μA, Stripper im Z-Zweig, Z6					UBIO, Voss / Jakob, 64 Ni, 4,8 MeV/u, X0			UMAT, Schuster/Traumann, 64Ni, 8.6 MeV/u, X0						
S393, Aumann, 40Ar, MUCIS, 600 MeV/u, 2*10e10/spill, slow extraction, HTC via FRS										S306, Datta Pramanik/Aumann, 40 Ar(18+), MUCIS, 550 MeV/nucleon, 2e10/spill(SIS), HTC via FRS					S-ESA, Durante/Schar dt, 40Ar, 0.5 - 1 GeV/u, 1e3 - 1e8/spill, slow extraction, HTA					S-ESA, Durante/Schar dt, 64Ni, 0.5 - 1 GeV/u, 1e3 - 1e8/spill, slow extraction, HTA			S389, Wiescher/Heil, 64Ni, 600, ECR, >4e8/spill, HTC via FRS						
S333, Salabura/Pietraszko, 64Ni, 1e8/spill, 1,25 GeV/u, fast ramping, HAD																				S363, Bentley/Gerl, 64Ni, 600 MeV/u, 1E7/spill, 5 s extraction, FRS-S4									b)
					E000, Steck, 40Ar18+, 400 MeV/u, 1e7-1e9/spill from SIS, SIS cooler, ESR																				E067, Novotny /Nörtershäuser, 7 Li+, PIG, 58.86 MeV/u, >10 muA in ESR, ESR				

a) U239, Düllmann/Düllmann, 64Ni, 4.5-5.5 MeV/u, 1 particle-microAmp (pulse), 5 ms / 5 Hz, X8 TASCA

b) S362, Ketzer/Leifels, 7Li, max. rigidity, ~5e6/spill, long extraction, HTB Blockmaode

4. Block / 2010

November 2010

Schedule as of 02-Nov-2010

Week 44							Week 45							Week 46							Week 47							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		
a)			b)		U000, Witthaus/Becker, 124Xe, 4,8 MeV/u, 1mA Pulsstrom, X2							UMAT, Severin/Trautmann, 197Au, PIG, 8.6 MeV/u, 50 Hz, 3 ms, X0							U000, W. Barth, MEVVA 238U, 8.6 MeV/u, TK												
										UMAT, Severin/Trautmann, 197Au, 8.6 MeV/u, 50 Hz, 3 ms, M-branch						c)															
d)			S372, Cederkal/Gorska, 124Xe, MUCIS, 700MeV/u, 5x10 ⁹ , 1s extraction, FRS							SMAT, Schuster/Trautmann, 197Au, PIG, 150-400 MeV/u, 1e8/spill, HTA				e)			SMAT, Schuster/Trautmann, 238U, MEVVA, 150-400 MeV/u, 5e8/spill, HTA				S000, W. Barth/P. Spiller, MEVVA 238U, 200 MeV/u, HHD										
f)		g)			S362, Ketzler/Leifels, 84Kr, 1400 MeV/u, ~5e6/spill, long extraction, HTB Blockmade							S333, Salabura/Pietraszko, 197Au, 1e7/spill, 1,25 GeV/u, fast ramping, HAD				S394, Lemmon/Leifels, 238U, 400MeV/u, <1e6/spill, long extraction (10s), HTC															
h)			E075, Herfurth, 84Kr, PIG, 4 MeV/u behind ESR, 1e6 / cycle behind ESR, cooling and deceleration in ESR, HITRAP							E096 and E079, Brandau/Kozhuharov, 238U, 370 MeV/u, 1e9/spill (SIS), SIS cooler, ESR																					

a) U231, Türler/Düllmann, 24Mg (ECR), 4.5 - 6.5 MeV/u, 2 pμA (Pulse) in X8, 5 ms, 50 Hz, X8 TASCA

b) UBIO, Friedrich, 84Kr, 11.4 MeV/u, 2 Hz, 1 ms, X6

c) UBIO, Friedrich, 197Au, 8,6 MeV/u, 1-5 Hz, 2-5 ms, X6

d) FRS000, Geissel, 238U, MEVVA, 500-1000 MeV/u, 5e9/spill, slow extraction, FRS

e) S333, Salabura/Pietraszko, 238U, MEVVA, 1e8/spill, 1,25 GeV/u, fast ramping, HAD

f) S000, Forck/Walasek-Hoehne, 238U MEVVA, 200 MeV/u, 1e4 to 1e8/spill, HTB

g) S372, Cederkal, Gorska, 84Kr, 700MeV/u, 10⁵, 10s extraction, FRS

h) E101, Thorn/Winters, 238U90+, 200 MeV/u, 400MeV/u, 1e8 particles, ESR