

FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS - (cm)	SLITS + (cm)	B1	B2	B3	B4	COMMENTS
001	R89-1	21-10-00	12,22	12,29	56Fe	0	0	0	0	,6955	,6890	,6826	,6814	Beam centered at S2, radii of the two first dipoles
002	R89-1	21-10-00	12,30	12,38	56Fe	0	0	0	0	,6955	,6890	,6826	,6814	Beam centered at S4
003	R89-1	21-10-00	12,51	12,55	56Fe	0	0	0	0	,6989	,6923	,6826	,6814	Dispersion at S2, scale by 0.5 %
004	R89-1	21-10-00	12,59	13,06	56Fe	0	0	0	0	,7025	,6957	,6826	,6814	Dispersion at S2, scale by 1.0 %
005	R89-1	21-10-00	13,11	13,14	56Fe	0	0	0	0	,7061	,6992	,6826	,6814	Dispersion at S2, scale by 1.5 %
006														NOT VALID
007	R89-1	21-10-00	13,54	14,00	56Fe	0	0	0	0	,6955	,6897	,6816	,6817	Centered at S4
008	R89-1	21-10-00	14,00	14,03	56Fe	0	0	0	0	,6955	,6897	,6816	,6817	First point for ToF calibration. New electronics for DT- 2D-4D.
009	R89-1	21-10-00	14,06	14,13	56Fe	0	0	0	0	,6989	,6930	,6816	,6817	Dispersion at S2. Scaling factor 0,5% respect to Run89_B.
010	R89-1	21-10-00	14,12	14,15	56Fe	0	0	0	0	,7025	,6816	,693	,6817	Dispersion at S2. Scaling factor 1% respect to Run89_B.
011	R89-1	21-10-00	14,20	14,22	56Fe	0	0	0	0	,6817	,6816	,6999	,7061	Dispersion at S2. Scaling factor 1,5% respect to Run89_B.
012	R89-1	21-10-00	14,27	14,30	56Fe	0	0	0	0	,6851	,6849	,6898	,6958	Dispersion at S4. Scaling factor 0,5%.
013	R89-1	21-10-00	14,33	14,34	56Fe	0	0	0	0	,6884	,6883	,6898	,6958	Dispersion D2-D4. Magnet scaled from S2 to S4 by 1%.
014	R89-1	21-10-00	14,59	15,05	56Fe	0	0	0	0	,6905	,6904	,6998	,6958	Beam centered at S2 and S4 without any matter in the FRS.
015	R89-1	21-10-00	15,27	15,30	56Fe	0	0	0	0	,6732	,6731	,6886	,6944	Second point of ToF calibration. Measurement with Dummy target. It is not centered at S4.
016	R89-1	21-10-00	15,40	15,51	56Fe	Dummy	0	0	0	,6806	,6805	,6886	,6944	Second point of ToF

														calibration. Centered at S4.(Run89_C).
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FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS - (cm)	SLITS + (cm)	B1	B2	B3	B4	COMMENTS
017	R89-1	21-10-00	16,16	16,28	56Fe	D2	0	0	0	,6739	,6737	,6819	,6877	Third point of ToF calibration.
018	R89-1	21-10-00	16,50	16,50										BAD FILE
019	R89-1	21-10-00	18,00	18,05	56Fe	Be	0	0	0	,5791	,5789	,5895	,5942	4 th Point for ToF calibration.
020	R89-1	21-10-00	18,15		56Fe	0	0	0	0	----	----	----	----	TAC calibration
021	R89-1	21-10-00	18,47	18,50	56Fe	D2	0	0	0	----	----	----	----	Position dependence of de E loss in the Music and position calibration at S4.
022	R89-1	21-10-00	19,09	19,10	56Fe	D2	0	-29,8	29,7	----	----	----	----	First point of the S4 calibration.
023	R89-1	21-10-00	19,14	19,19	56Fe	D2	0	-60,7	60,3	----	----	----	----	Second point of the S4 calibration.
024	R89-1	21-10-00	19,21	19,25	56Fe	D2	0	-80,4	80,2	----	----	----	----	Third point of the S4 calibration.
025	R89-1	21-10-00	19,29	19,37	56Fe	D2	0	-90,2	90,2	----	----	----	----	Fourth point of the S4 calibration.
026	R89-1	21-10-00	20:13	20:43	37,4Ar	D2	0	0	0	,6557	,6502	,6425	,6427	SC21 Calibration
027	R89-1	21-10-00	20:53	20:59	37,4Ar	D2	0	-30.6	30.2	“	“	“	“	“
028	R89-1	21-10-00	21:01	21:11	37,4Ar	D2	0	-60.0	60.0	“	“	“	“	“
029	R89-1	21-10-00	21:13	21:18	37,4Ar	D2	0	-79.9	80.0	“	“	“	“	“
030	R89-1	21-10-00	21:21	21:30	37,4Ar	D2	0	-90.1	89.6	“	“	“	“	“
031	R89-1	21-10-00	22,30	23,16	37,4Ar	D2	0	0	0	,6557	,6502	,6425	,6427	First Data at 37.4Ar. Trigger at S2.
0005	R89-1	22-10-00	1,17	1,30	37,4Ar	D2	0	0	0	,6557	,6502	,6425	,6427	Continuation of the previous one.
0006	R89-2	22-10-00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	Empty, Zero File
0007	R89-2	22-10-00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	Empty, Zero File
0032	R89-2	22-10-00	1,55	2,25	37,4Ar	D2	0	0	0	,6557	,6502	,6425	,6427	Continuation of 0005
0033	R89-2	22-10-00	2,39	2,45	----	-----	-----	-----	-----	-----	-----	-----	-----	Empty File. The Beam was closed
0034	R89-2	22-10-00	3,02	3,45	36,8Ar	D2	0	0	0	,6446	,6394	,6319	,6320	1 st Measurement for 36.8Ar
0036	R89-2	22-10-00	4,06	4,25	38 Ar	D2	0	0	0	,6668	,6610	,6561	,6563	1 st Measurement for

														38Ar
0037	R89-2	22-10-00	4,26	4,41	38 Ar	D2	0	0	0	,6668	,6610	,6561	,6563	Continuation of the Previous
0038	R89-2	22-10-00	5,00	5,30	38.6 Ar	D2	0	-2,7	0	,6780	,6722	,6674	,6675	1 st M. For 38.6Ar

FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS – (cm)	SLITS + (cm)	B1	B2	B3	B4	COMMENTS
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0039	R89-2	22-10-00	5,30	5,34	38.6 Ar	D2	0	2,7	10	,6780	,6722	,6674	,6675	Continuation for the Previous.
0040	R89-2	22-10-00	5,52	6,08	39,2 Ar	D2	0	10	10	,6895	,6835	,6789	,6790	1 st for 39.2Ar
0042	R89-3	22-10-00	6,29	6,59	39,2 Ar	D2	0	10	10	,6895	,6835	,6789	,6790	Continuation for the Previous.
0043	R89-3	22-10-00	-----	-----	39,2 Ar	D2	0	10	10	,6895	,6835	,6789	,6790	Continuation for the Previous. Automatically opened.
0044	R89-3	22-10-00	7,25	7,55	39,9Ar	D2	0	10	10	,7011	6952	6904	6905	
0045	R89-3	22-10-00	8,05	8,38	40,5 Ar	D2	0	10	10	,7131	7069	7035	7036	
0046	R89-3	22-10-00	8,55	9,25	41,2Ar	D2	0	10	10	,7250	7188	7147	7147	
0047	R89-3	22-10-00	9,47	10,27	41,8Ar	D2	0	10	10	,7372	7309	7269	7269	
0048	R89-3	22-10-00	10,43	11,16	42,5Ar	D2	0	10	10	,7499	7431	7393	7393	
0049	R89-3	22-10-00	11,33	12,05	43,2Ar	D2	0	10	10	,7624	7557	7519	7518	
0050	R89-3	22-10-00	12,14	12,44	36,2Ar	D2	0	10	10	,6339	6287	6240	6242	
0051	R89-3	22-10-00	12,55	13,26	35,2Ar	D2	0	10	10	,6233	6183	6135	6137	
0052	R89-3	22-10-00	13,43	14,12	35,0Ar	D2	0	10	10	,6129	6079	6028	6030	
0053	R89-3	22-10-00	14,20	14,53	34,5Ar	D2	0	10	10	,6025	5978	5928	5930	
0054	R89-3	22-10-00	15,02	15,32	33,8Ar	D2	0	10	10	,5900	5853	5804	5807	
0055	R89-3	22-10-00	15,43	16,15	33,1Ar	D2	0	10	10	,5777	5732	5680	5683	
0056	R89-3	22-10-00	16,24	16,59	32,4Ar	D2	0	10	10	,5564	,5561	,5612	,5657	
0057	R89-3	22-10-00	17,31	17,50	38,6Ar	D2	0	0,5	10	,6780	,6722	,6674	,6675	Slits at S1
0058	R89-3	22-10-00	18,10	18,16	56Fe	D2	0	10	10	,6877	,6819	,6738	,6739	Ref. setting
0059	R89-3	22-10-00	19,56	20,15	56Fe	dummy	0	10	10	,6948	,6886	,6805	,6805	Ref. setting
0060	R89-3	22-10-00	20,37	20,56	40,5Ar	dummy	0	10	10	,7191	,7128	,7154	,7154	Bad dead time. PPAC parameters have been changed.
0061	R89-3	22-10-00	21,14	21,35	41,2Ar	dummy	0	0	0	,7313	,7250	,7173	,7173	Seetram sensitivity has been changed.
0062	R89-3	22-10-00	21,46	22,11	41,8Ar	dummy	0	0	0	,7435	,7370	,7294	,7295	
0063	R89-3	22-10-00	22,20	22,45	42,5Ar	dummy	0	0	0	,7559	,7494	,7418	,7418	Low rate at S4.
0064	R89-3	22-10-00	22,53	23,19	43,2Ar	dummy	0	0	0	,7687	,7619	,7544	,7544	

0065	R89-4	22-10-00	23,27	23,55	32,4Ar	dummy	0	0	0	,5709	,5665	,5588	,5591	Tape changed.
0066	R89-4	23-10-00	0,13	0,43	33,1Ar	dummy	0	0	0	,5830	,5784	,5709	,5712	
0067	R89-4	23-10-00	1,00	1,31	33,8Ar	dummy	0	0	0	,5955	,5908	,5831	,5834	
0068	R89-4	23-10-00	1,39	2,09	34,5Ar	dummy	0	0	0	,6082	,6034	,5957	,5960	
0069	R89-4	23-10-00	1,51	2,21	35,0Ar	dummy	0	0	0	,6184	,6135	,6059	,6061	Times measured from date found on tape.

FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS
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0070	R89-4	23-10-00	3,48	4,16	35,6Ar	dummy	0	0	0	,6289	,6238	,6162	,6165	Use KCPC02 clock again for time.
0071	R89-4	23-10-00	4,22	4,52	36,2Ar	dummy	0	0	0	,6395	,6343	,6268	,6269	
0072	R89-4	23-10-00	5,09	5,40	36,8Ar	dummy	0	0	0	,6504	,6449	,6374	,6376	
0073	R89-4	23-10-00	6,42	6,55	37,4Ar	dummy	0	0	0	,6611	,6556	,6483	,6484	File closed in advance because there was no beam
0074	R89-4	23-10-00	7,56		37,4Ar	dummy	0	0	0	,6611	,6556	,6483	,6484	
0075	R89-4	23-10-00	8,35	9,05	38 Ar	dummy	0	0	0	,6725	,6670	,6594	,6594	
0076	R89-4	23-10-00	9,42	9,53	38,6 Ar	dummy	0	-30	0	,6839	,6781	,6705	,6706	Primary Beam is cut at S1
0077	R89-4	23-10-00	9,54	10,17	38,6Ar	dummy	0	-30	0	,6839	,6782	,6705	,6706	Seetram scale now 10exp-10 F.S
0078	R89-4	23-10-00	10,19	10,50	38,6 Ar	dummy	0	-25	0	,6839	,6782	,6705	,6707	
0079	R89-4	23-10-00	10,50	11,26	39,2 Ar	dummy	0	0	1	,6952	,6893	,6820	,6820	Primary beam centered
0080	R89-4	23-10-00	12:44	13:22	39.9Ar	dummy	0	-	+34	,7071	,7012	,6936	,6937	Slits on the left
0081	R89-4	23-10-00	13:43	13:52	56Fe	dummy	0	-	-	,6945	,6886	,6806	,6806	Primary beam
0082	R89-4	23-10-00	13:54	14:07	56Fe	dummy	0	-	-	-	-	-	-	S4 position calibration sweeping with the last dipole across the SC4
0083	"	"	14:09	14:14	"	"	"	"	"	"	"	"	"	"
0084	R89-5	23-10-00	18:45	18:55	56Fe	LH2	0	-	-	.6897	.6822	.6759	.6739	Beam test of FRS optics
0085	R89-5	23-10-00	19:08	19:17	56Fe	LH2	0	-	-	.6967	.6890	.6826	.6806	Beam test of the achromaticism of FRS optics
0086	R89-5	23-10-00	20:08	20:29	39.9Ar	LH2	0	-	+34.8	.7030	.6952	.6895	.6876	Slits on the right
0087	R89-5	23-10-00	20:37	21:08	39.2Ar	LH2	0		-0.1	.6913	.6837	.6780	.6761	
0088	R89-5	23-10-00	21:23	21:29	38.6Ar	LH2	0	-20.9	-	.6798	.6723	.6667	.6648	Still primary beam at S2, so stopped early

0089	R89-5	23-10-00	21:32	22:05	38.6Ar	LH2	0	-18.0	-	.6798	.6723	.6667	.6648	Restart 38.6Ar
0090	R89-5	23-10-00	22:17	22:48	38.0Ar	LH2	0	-	-	.6684	.6612	.6555	.6536	
0091	R89-5	23-10-00	23:00	23:41	37.4Ar	LH2	0	-	-	.6572	.6502	.6445	.6427	Beam gone for 7 minutes
0092	R89-5	23-10-00	23:50	0:00	36.8Ar	LH2	0	-	-	.6464	.6395	.6336	.6318	
0093	R89-5	24-10-00	0:38	1:06	36.2Ar	LH2	0	-	-	.6356	.6287	.6231	.6212	

FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS
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0094	R89-5	24-10-00	1:19	1:50	35.6Ar	LH2	0	-	-	.6251	.6184	.6123	.6108	
0095	R89-5	24-10-00	2:02	2:32	40.5Ar	LH2	0	-	-	.7149	.7069	.7013	.6993	
0096	R89-5	24-10-00	2:38	3:08	41.2Ar	LH2	0	-	-	.7270	.7189	.7132	.7112	
0097	R89-5	24-10-00	3:17	3:48	41.8Ar	LH2	0	-	-	.7393	.7309	.7254	.7232	
0098	R89-5	24-10-00	3:55	4:27	42.5Ar	LH2	0	-	-	.7517	.7433	.7376	.7354	
0099	R89-5	24-10-00	4:33	5:30	43.2Ar	LH2	0	-	-	.7643	.7558	.7502	.7479	No beam ~15'
0100	R89-5	24-10-00	5:38	6:08	35Ar	LH2	0	-	-	.6145	.6081	.6022	.6005	
0101	R89-5	24-10-00	6:15	6:45	34.5Ar	LH2	0	-	-	.6043	.5979	.5920	.5903	
0102	R89-5	24-10-00	6:53	7:23	33.8Ar	LH2	0	-	-	.5917	.5854	.5794	.5779	
0103	R89-5	24-10-00	7:29	8:10	33.1Ar	LH2	0	-	-	.5793	.5732	.5672	.5657	

⁵⁶Fe at 1 GeV

0104	R89-6	24-10-00	10:24	10:28	beam	-	0	-	-	1.0828	1.0712	1.0799	1.0812	To center beam at S2
0105	R89-6	24-10-00	10:37	10:41	Beam	-	0	-	-	1.0828	1.0712	1.0738	1.0752	To center beam at S4
0106	R89-6	24-10-00	10:49	10:56	Beam	-	0	-	-	1.0828	1.0712	1.0681	1.0692	Beam centered everywhere
0107	R89-6	24-10-00	10:04	10:10	beam	-	0	-	-	1.0937	1.0820	1.0788	1.0800	Check achromatism
0108	R89-6	24-10-00	11:09	11:13	Beam	-	0	-	-	1.0937	1.0820	1.0788	1.0800	Check if we are centered at S4
0109	R89-6	24-10-00	11:28	11:29	Beam	LH2	0	-	-	1.0789	1.0671	1.0681	1.0692	Centered at S2
0110	R89-6	24-10-00	11:38	11:46	Beam	LH2	0	-	-	1.0789	1.0673	1.0639	1.0650	Centered at S4
0111	R89-6	24-10-00	12:53	13:39	38.6Ar	LH2	0	-13.0	-	1.0669	1.0553	1.0542	1.0552	
0112	R89-6	24-10-00	14:14	14:40	39.2Ar	LH2	0	-	+6	1.0838	1.0723	1.0710	1.0722	
0113	R89-6	24-10-00	15:02	15:29	39.9Ar	LH2	0	-	+40	1.1036	1.0919	1.0906	1.0919	
0114	R89-6	24-10-00	15:38	16:08	40.5Ar	LH2	0	-	+78	1.1207	1.1089	1.1074	1.1089	
0115	R89-6	24-10-00	16:17	16:47	41.2Ar	LH2	0	-	-	1.1407	1.1288	1.1272	1.1287	
0116	RUN	24-10-00	16:54	17:24	41.8Ar	LH2	0	-	-	1.1578	1.1457	1.1442	1.1457	
0117	RUN	24-10-00	17:30	18:00	42.5Ar	LH2	0	-	-	1.1778	1.1654	1.1640	1.1655	
0118	RUN	24-10-00	18:17	18:47	43.2Ar	LH2	0	-	-	1.1979	1.1853	1.1838	1.1853	
0119	RUN	24-10-00	19:48	20:17	32.4Ar	LH2	0	-	-	0.8912	0.8807	0.8803	0.8803	
0120	RUN	24-10-00	20:17	20:18	32.4Ar	LH2	0	-	-	0.8912	0.8807	0.8803	0.8803	

0121	RUN	24-10-00	20:37	20:42	33.1Ar	LH2	0	-	-	0.9111	0.9003	0.9000	0.9000	One cable unplugged
0122	RUN	24-10-00	20:43	20:59	33.1Ar	LH2	0	-	-	0.9111	0.9003	0.9000	0.9000	One cable unplugged
0123	RUN	24-10-00	21:00	21:30	33.1Ar	LH2	0	-	-	0.9111	0.9003	0.9000	0.9000	
0124	RUN	24-10-00	21:37	22:07	33.8Ar	LH2	0	-	-	0.9308	0.9201	0.9196	0.9197	
0125	RUN	24-10-00	22:13	22:44	34.5Ar	LH2	0	-	-	0.9507	0.9397	0.9393	0.9395	
0126	RUN	24-10-00	22:51	23:21	35.0Ar	LH2	0	-	-	0.9649	0.9537	0.9533	0.9536	
0127	RUN	24-10-00	23:28	23:57	35.6Ar	LH2	0	-	-	0.9819	0.9706	0.9701	0.9705	
0128	RUN	25-10-00	00:04	00:34	36,2Ar	LH2	0	-	-	0.9989	0.9876	0.9869	0.9874	

FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS
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0129	RUN	25-10-00	00:45	01:10	36,8Ar	LH2	0	-	-	1.0159	1.0044	1.0037	1.0043	
0130	RUN	25-10-00	01:21	01:30	37.4Ar	LH2	0	-	-	1.0329	1.0219	1.0206	1.0214	Stopped early; too much deadtime
0131	RUN	25-10-00	01:33	01:55	37.4Ar	LH2	0	-	-	1.0329	1.0219	1.0206	1.0214	Lower intensity; redo File 0130
0132	RUN	25-10-00	02:04	02:34	38Ar	LH2	0	-	-	1.0499	1.0382	1.0373	1.0382	Last file with 2H target
0133	R89-8	25-10-00	05:03	05:07	56Fe	Dummy	0	-	-	1.0808	1.0719	1.0695	1.0680	Primary beam
0134	R89-8	25-10-00	06:18	06:53	38.6Ar	Dummy	0	-23	-	1.0679	1.0589	1.0583	1.0566	
0135	R89-8	25-10-00	07:31	07:48	39.2Ar	Dummy	0		+7.9	1.0857	1.0767	1.0758	1.0742	
0136	R89-8	25-10-00	13:23	13:59	39,2Ar	Dummy	0	-	7,9	1,0857	1,0767	1,0758	1,0742	
0137	R89-8	25-10-00	14:10	14:37	39.9Ar	Dummy	0	OPEN	OPEN	1.1036	1.0947	1.0936	1.0923	
0138	R89-8	25-10-00	14:47	14:11	38,0Ar	Dummy	0	-	*	1,0504	1,0414	1,0408	1,0391	
0139	R89-8	25-10-00	15:18	15:43	37,4Ar	Dummy	0	OPEN	OPEN	1,0332	1,0244	1,0237	1,0220	
0140	R89-8	25-10-00	15:51	16:15	40,5Ar	Dummy	0	OPEN	OPEN	1,1222	1,1129	1,1119	1,1107	
0141	R89-8	25-10-00	16:23	16:49	36.8Ar	Dummy	0	OPEN	OPEN	1.0162	1.0073	1.0069	1.0049	
0142	R89-8	25-10-00	16:58	17:25	41.2Ar	Dummy	0	OPEN	OPEN	1.1410	1.1318	1.1306	1.1293	
0143	R89-8	25-10-00	17:33	17:59	36.2Ar	Dummy	0	OPEN	OPEN	0.9995	0.9907	0.9905	0.9885	
0144	R89-8	25-10-00	18:06	18:27	35.6Ar	Dummy	0	OPEN	OPEN	0.9833	0.9744	0.9741	0.9721	
0145	R89-8	25-10-00	18:39	19:06	41.8Ar	Dummy	0	OPEN	OPEN	1.1601	1.1509	1.1496	1.1483	Seetram now 10^-9
0146	R89-8	25-10-00	19:25	19:50	35.0Ar	Dummy	0	OPEN	OPEN	0.9669	0.9582	0.9581	0.9559	
0147	R89-8	25-10-00	19:59	20:26	42.5Ar	Dummy	0	OPEN	OPEN	1.1794	1.1701	1.1689	1.1675	
0148	R89-8	25-10-00	20:33	21:03	43.2Ar	Dummy	0	OPEN	OPEN	1.1991	1.1896	1.1885	1.1869	
0149	R89-8	25-10-00	21:12	21:37	34.5Ar	Dummy	0	OPEN	OPEN	0.9517	0.9432	0.9429	0.9408	
0150	R89-8	25-10-00	21:44	21:55	33.8Ar	Dummy	0	OPEN	OPEN	0.9315	0.9231	0.9229	0.9209	closed – problems? with MUSIC anod 3
0151	R89-8	25-10-00	22:00	22:16	33.8Ar	Dummy	0	OPEN	OPEN	0.9315	0.9231	0.9229	0.9209	
0152	R89-8	25-10-00	22:24	22:51	33.1Ar	Dummy	0	OPEN	OPEN	0.9125	0.9041	0.9040	0.9017	
0153	R89-8	25-10-00	23:12	23:37	32.4Ar	Dummy	0	OPEN	OPEN	0.8927	0.8845	0.8812	0.8791	
0154	R89-8	25-10-00	23:55	23:58	56Fe	Dummy	0	OPEN	OPEN	1.0808	1.0719	1.0695	1.0680	Seetram now 10^-10

														Trigger 1
0155	R89-8	25-10-00	23:59	00:01	56Fe	Dummy	0	OPEN	OPEN	1.0808	1.0719	1.0695	1.0680	Trigger 2
0155	R89-8	26-10-00	00:00	00:02	56Fe	Dummy	0	OPEN	OPEN	1.0808	1.0719	1.0799	1.0786	S2S4: 1% up
0156	R89-8	26-10-00	00,05	00,10										
0157	R89-8	26-10-00	1:45	1:47	56Fe	No Target	0	0	0	1,4363	1,4237	1,4247	1,4216	
0158	R89-8	26-10-00	1:48	1:50	56Fe	No Target	0	0	0	1,4363	1,4237	1,4247	1,4216	
0159	R89-8	26-10-00	1,54	1,56	56Fe	No Target	0	0	0	1,4363	1,4237	1,4385	1,4356	
0160	R89-8	26-10-00	1,59	2,01	56Fe	No Target	0	0	0	1,4505	1,4375	1,4385	1,4356	
0161	R89-8	26-10-00	2,07	2,11	56Fe	Dummy	0	0	0	1,4363	1,4236	1,4246	1,4216	
0162	R89-8	26-10-00	2,28	2,30	56Fe	LH2	0	0	0	1,4363	1,4236	1,4246	1,4216	
0163	R89-8	26-10-00	2,34	2,45	56Fe	LH2	0	0	0	1,4322	1,4195	1,4206	1,4176	
FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS

0164	R89-8	26-10-00	2,59	3,01	56Fe	LH2	0	0	0	1,4462	1,4339	1,4347	1,4318	
0165	R89-8	26-10-00	3,13	3,28	43,8Ar	LH2	0	0	0	1,2140	1,2044	1,2039	1,2012	The Energy Was WRONG
0166	R89-8	26-10-00	3,40	3,56	35Ar	LH2	0	0	0	1,2845	1,2734	1,2736	1,2705	
0167	R89-8	26-10-00	4,03	4,18	35,6Ar	LH2	0	0	0	1,3070	1,2956	1,2959	1,2927	
0168	R89-8	26-10-00	4,24	4,38	36,2Ar	LH2	0	0	0	1,3293	1,3176	1,3183	1,3150	
0169	R89-8	26-10-00	4,44	5,03	36,8Ar	LH2	0	0	0	1,3515	1,3395	1,3405	1,3371	
0170	R89-8	26-10-00	5,11	5,30	37,4Ar	LH2	0	0	0	1,3734	1,3616	1,3625	1,3592	
0171	R89-8	26-10-00	5,43	5,59	38Ar	LH2	0	-55	0	1,3954	1,3836	1,3848	1,3816	
0172	R89-8	26-10-00	6,04	6,06	38,6Ar	LH2	0	-19	0	1,4177	1,4056	1,4069	1,4038	
0173	R89-8	26-10-00	6,07	6,22	38,6Ar	LH2	0	-16	0	1,4177	1,4056	1,4069	1,4038	
0174	R89-8	26-10-00	6,29	6,44	39,2Ar	LH2	0	0	8	1,4398	1,4279	1,4291	1,4262	
0175	R89-8	26-10-00	6,54	7,09	39,9Ar	LH2	0	0	55	1,4658	1,4541	1,4550	1,4524	
0176	R89-8	26-10-00	7,16	7,30	40,5Ar	LH2	0	0	0	1,4881	1,4764	1,4772	1,4747	
0177	R89-8	26-10-00	7,37	7,52	41,2Ar	LH2	0	0	0	1,5142	1,5027	1,5034	1,5010	
0178	R89-8	26-10-00	7,59	8,15	41,8Ar	LH2	0	0	0	1,5361	1,5252	1,5258	1,5236	
0179	R89-8	26-10-00	8,23	8,39	42,5Ar	LH2	0	0	0	1,5628	1,5516	1,5521	1,5500	
0180	R89_8	26-10-00	8,46	9,03	43,2Ar	LH2	0	0	0	1,5890	1,5779	1,5782	1,5763	
0181	R89_8	26-10-00	9,08	9,30	43,5Ar	LH2	0	0	0	1,6001	1,5890	1,5894	1,5873	Max. Brho possible Last file of 1500 MeV.A 56Fe on H2 Discovered MW41 is not working
0182	R89_8	26-10-00	11,22	11,35		Dummy	0	0	0	14334	14231	14238	14210	Beam alignment
0183	R89_10	26-10-00	13:34	13.51	39.2Ar	Dummy	0	0	+16.8	14417	14315	14314	14287	Seetram 10^-10
0184	R89_10	26-10-00	14,04	14,20	38,6Ar	Dummy	0	-18.1	0	1,4193	1,4092	1,4094	1,4064	
0185	R89_10	26-10-00	14,26	14,42	37,4Ar	Dummy	0	0	0	1,3749	1,3649	1,3649	1,3618	Following run radiation monitor

														tripped
0186	R89-10	26-10-00	15:02	15:05	38.0Ar	Dummy	0	0	0					Neutron monitor tripped again during run
0187	R89-10	26-10-00	15,22	15,25	38.0Ar	Dummy	0	0	0	1.3977	1.3868	1.3869	1.3837	450,000 counts per dump in SC21
0188	R89-10	26-10-00	15,35	15,51	38.0Ar	Dummy target was not in	0	-50.7	0	1.3978	1.3870	1.3871	1.3840	Note negative slits
0189	R89-10	26-10-00	16,21	16,25	38,0Ar	Dummy	0	0	0	1.3978	1.3870	1.3871	1.3840	Note negative slits. Operator needs to take beam down.
0190	R89-10	26-10-00	16,30	17,43	38,0Ar	Dummy	0	0	0	1,3976	1,3870	1,3871	1,3839	Counts rates =f190
FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS

0191	R89-10	26-10-00	16,52	17,15	36,8Ar	Dummy	0	5	0	1,3533	1,3430	1,3426	1,3394	
0192	R89-10	26-10-00	17:23	17:43	39,9Ar	Dummy	0	5	0	1,4681	1,4576	1,4574	1,4548	
0193	R89-10	26-10-00	17:55	18:03	36,2Ar	Dummy	0	0	0	1,3309	1,3211	1,3206	1,3172	Seetram's sensitivity has been changed.
0194	R89-10	26-10-00	18:05	18:20	36,2Ar	Dummy	0	0	0	1,3309	1,3211	1,3206	1,3172	Counts rates=f193
0195	R89-10	26-10-00	18:29	18:46	40,5Ar	Dummy	0	0	0	1,4096	1,4801	1,4798	1,4774	
0196	R89-10	26-10-00	18:54	19:10	41,2Ar	Dummy	0	0	0	1,5166	1,5063	1,5059	1,5038	
0197	R89-10	26-10-00	19:17	19:33	41,8Ar	Dummy	0	0	0	1,5391	1,5290	1,5283	1,5262	
0198	R89-10	26-10-00	19:39	19:57	42,5Ar	Dummy	0	0	0	1,5653	1,5554	1,5545	1,5527	
0199	R89-10	26-10-00	20:05	20:22	43,2Ar	Dummy	0	0	0	1,5916	1,5818	1,5807	1,5790	
0200	R89-10	26-10-00	20:28	20:50	43,4Ar	Dummy	0	0	0	1,5988	1,5892	1,5881	1,5864	
0201	R89-10	26-10-00	21:00	21:03	35,6Ar	Dummy	0	0	0	1,3074	1,2986	1,2980	1,2950	Too much dead time and intensity.
0202	R89-10	26-10-00	21:14	21:31	35,0Ar	Dummy	0	0	0	1,2849	1,2768	1,2754	1,2728	
0203	R89-10	26-10-00	21:38	21:56	35,6Ar	Dummy	0	0	0	1,3077	1,2988	1,2981	1,2950	
0204	R89-10	26-10-00	23:35	23:41	56Fe	H2	0	0	0	0,5051	0,5007	0,4879	0,4869	REFERENCE SETTING 300AmeV H target.
0205	R89-10	26-10-00	23:44	23:45	56Fe	H2	0	0	0	0,5103	0,5057	0,4928	0,4918	+1% on TA-S4 with MW21 (dispersion measurement)
0206	R89-10	26-10-00	23:46	23:47	56Fe	H2	0	0	0	0,5051	0,5007	0,4879	0,4869	MW21 removed on the edge at S2. Centered at S4
0207	R89-10	26-10-00	23:48	23:53	56Fe	H2	0	0	0	0,5052	0,5006	0,4928	0,4918	Centered at S2 . (ref .for Ta-S2 and +1%

														for S2-S4)
0208	R89-10	27-10-00	00:17	00:19	56Fe	No target	0	0	0	0.5150	0.5103	0.5106	0.5094	Centered at S2
0209	R89-10	27-10-00	00:24	00:26	56Fe	No target	0	0	0	0.5151	0.5103	0.5110	0.5098	Centered at S4
0210	R89-10	27-10-00	00:36	00:41	56Fe	No target	0	0	0	0.5151	0.5103	0.4981	0.4971	Now with Sc21
0211	R89-10	27-10-00	01:16	01:30	38.6Ar	H2	0	-22	0	0.4967	0.4920	0.4835	0.4825	
0212	R89-10	27-10-00	02:07	02:27	39.9Ar	H2	0	0	+25	0.5144	0.5095	0.5010	0.4999	
0213	R89-10	27-10-00	02:39	02:57	39.5Ar	H2	0	0	+0.0	0.5090	0.5041	0.4955	0.4945	
0214	R89-10	27-10-00	03:09	03:14	38.9Ar	H2	0	-4.0	0	0.5008	0.4959	0.4874	0.4864	
0215	R89-10	27-10-00	03:17	03:46	38.9Ar	H2	0	-4.0	0	0.5008	0.4959	0.4874	0.4864	Music1: gain *1/2
0216	R89-10	27-10-00	03:53	04:09	38.0Ar	H2	0	-70.0	0	0.4885	0.4839	0.4752	0.4743	
0217	R89-10	27-10-00	04:16	04:37	40.5Ar	H2	0	0	+65	0.5225	0.5176	0.5092	0.5080	
0218	R89-10	27-10-00	04:43	04:58	37.4Ar	H2	0	0	0	0.4802	0.4757	0.4670	0.4662	
0219	R89-10	27-10-00	05:05	05:21	41.2Ar	H2	0	0	0	0.5323	0.5269	0.5187	0.5174	
0220	R89-10	27-10-00	05:28	05:44	36.8Ar	H2	0	0	0	0.4720	0.4676	0.4589	0.4580	
0221	R89-10	27-10-00	05:51	06:08	36.2Ar	H2	0	0	0	0.4638	0.4594	0.4510	0.4499	
FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS

0222	R89-10	27-10-00	06:13	06:15	41.8Ar	H2	0	0	0	0.5404	0.5351	0.5268	0.5255	
0223	R89-10	27-10-00	06:16	06:31	41.8Ar	H2	0	0	0	0.5405	0.5351	0.5268	0.5255	Seetram 10^-9
0224	R89-10	27-10-00	06:37	06:53	35.6Ar	H2	0	0	0	0.4557	0.4513	0.4427	0.4419	
0225	R89-10	27-10-00	06:59	07:29	42.5Ar	H2	0	0	0	0.5500	0.5446	0.5362	0.5349	
0226	R89-10	27-10-00	07:35	08:04	43.2Ar	H2	0	0	0	0.5595	0.5540	0.5457	0.5444	
0227	R89-10	27-10-00	08:10	08:21	43.4Ar	H2	0	0	0	0.5622	0.5566	0.5484	0.5471	
0228	R89-10	27-10-00	08:26	08:37	43.4Ar	H2	0	0	0	0.5622	0.5566	0.5484	0.5471	
0229	R89-10	27-10-00	08:38	08:45	43.4Ar	H2	0	0	0	0.5622	0.5566	0.5484	0.5471	
0230	R89-10	27-10-00	08:50	09:10	35.0Ar	H2	0	0	0	0.4474	0.4433	0.4346	0.4337	
0231	R89-10	27-10-00	10:14	10:22	Fe	Dummy	0	0	0	0.5142	0.5092	0.4966	0.4955	
0232	R89-10	27-10-00	11:11	11:31	39.5Ar	Dummy	0	0	7.	0.5163	0.5112	0.5032	0.5019	
0233	R89-10	27-10-00	11:48	12:03	38.9Ar	Dummy	0	-7.0	0	0.5079	0.5029	0.4949	0.4938	
0234	R89-10	27-10-00	12:15	12:30	39.9Ar	Dummy	0	0	27.9	0.5218	0.5166	0.5087	0.5076	
0235	R89-10	27-10-00	12:38	12:54	38.6Ar	Dummy	0	-32.0	0	0.5038	0.4988	0.4908	0.4897	
0236	R89-10	27-10-00	13:00	13:16	38.0Ar	Dummy	0	-50.0	0	0.4957	0.4907	0.4827	0.4816	
0237	R89-10	27-10-00	13:22	13:41	37.4Ar	Dummy	0	0	0	0.4873	0.4825	0.4745	0.4735	
0238	R89-10	27-10-00	13:47	13:55	36.8Ar	Dummy	0	0	0	0.4792	0.4744	0.4662	0.4653	
0239	R89-10	27-10-00	13:56	14:09	36.8Ar	Dummy	0	0	0	0.4792	0.4744	0.4662	0.4653	Seetram to e-9
0240	R89-10	27-10-00	14:10	14:21	36.8Ar	Dummy	0	0	0	0.4792	0.4744	0.4662	0.4653	MW21&22 in
0241	R89-10	27-10-00	14:27	14.43	36.2Ar	Dummy	0	0	0	0.4708	0.4662	0.4581	0.4572	
0242	R89-10	27-10-00	14:49	15.04	35.6Ar	Dummy	0	0	0	0.4625	0.4580	0.4499	0.4490	
0243	R89-10	27-10-00	15.10	15.30	35.0Ar	Dummy	0	0	0	0.4543	0.4499	0.4417	0.4408	
0244	R89-10	27-10-00	15.35	15.55	43.4Ar	Dummy	0	0	0	0.5699	0.5640	0.5565	0.5551	
0245	R89-10	27-10-00	16.00	16.16	43.2Ar	Dummy	0	0	0	0.5671	0.5614	0.5537	0.5523	

0246	R89-10	27-10-00	16:24	16:40	42.5Ar	Dummy	0	0	0	0.5575	0.5519	05442.	0.5428	
0247	R89-10	27-10-00	16:47	17:03	41.8Ar	Dummy	0	0	0	0.5479	0.5424	0.5345	0.5333	
0248	R89-10	27-10-00	17:15	17:30	41.2Ar	Dummy	0	-100.5	100	0.5396	0.5343	0.5264	0.5252	
0249	R89-10	27-10-00	17:41	17:57	40.5Ar	Dummy	0	-100.5	63	0.5301	0.5247	0.5158	0.5157	

⁵⁶Fe energy : 750

0250	R89-11	27-10-00	19:53				0	0	0	0.8959	0.8871	0.8843	0.8842	
0251	R89-11	27-10-00	20:20	20:24		No target	0	0	0	0.8959	0.8871	0.8872	.8802	Centered everywhere
0252	R89-11	27-10-00	20:29	20:33		No target	0	0	0	0.9048	0.8960	0.8843	0.8802	Dispersion to S2
0253	R89-11	27-10-00	20:38	20:41		No target	0	0	0	0.8959	0.8872	0.8930	0.8890	Dispersion S2-S4
0254	R89-11	27-10-00	21:08	21:10		H2	0	0	0	0.8808	0.8821	0.8842	0.8802	Center beam at S2 with target in
0255	R89-11	27-10-00	21:24	21:30		H2	0	0	0	0.8908	0.8822	0.8795	0.8754	Everything centered .
0256	R89-11	27-10-00	22:25	22:40	39.2Ar	H2	0	0	6	0.8944	0.8857	0.8817	0.8776	Seetram is 10^-10
0257	R89-11	27-10-00	22:57	23:20	38.6Ar	H2	0	-19.1	0	0.8804	0.8717	0.8678	0.8637	
0258	R89-11	27-10-00	23:32	?	38.0Ar	H2	0	-6 mm		0.8664	0.8577	0.8539	0.8498	Tape & slits wrong !
FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS

0258	R89-12	27-10-00	23:50	0:04	38.0Ar	H2	0	-55.0 mm		0.8664	0.8559	0.8539	0.8498	Note that there are two files 258, one on R89_11 and one on R89_12.
0259	R89-12	28-10-00	0:18	0:32	37,4Ar	H2	0	0	0	0.8522	0,8438	0,8398	0,8361	
0260	R89-12	28-10-00	-	-	-	-	-	-	-	-	-	-	-	ERROR FILE.
0261	R89-12	28-10-00	0:44	1:04	39,9Ar	H2	0	0	0	0,9109	0,9021	0,8990	0,8939	
0262	R89-12	28-10-00	1:30	1:46	40,5Ar	H2	0	0	0	0,9251	0,9160	0,9120	0,9079	
0263	R89-12	28-10-00	1:54	2:10	41,2Ar	H2	0	0	0	0,9416	0,9324	0,9281	0,9240	
0264	R89-12	28-10-00	2:24	2:39	41,8Ar	H2	0	0	0	0,9557	0,9464	0,9422	0,9377	
0265	R89-12	28-10-00	2:49	2:55	42,5Ar	H2	0	0	0	-	-	-	-	Closed because too much Seetram rate.
0266	R89-12	28-10-00	3:00	3:18	42,5Ar	H2	0	0	0	0,9720	0,9628	0,9584	0,9541	Seetram to 10^-9
0267	R89-12	28-10-00	3:32	3:48	43,2Ar	H2	0	0	0	0,9885	0,9791	0,9747	0,9705	
0268	R89-12	28-10-00	3:55	4:14	43,8Ar	H2	0	0	0	1,0026	0,9933	0,9885	0,9843	
0269	R89-12	28-10-00	4:23	4:39	35Ar	H2	0	0	0	0,7956	0,7880	0,7840	0,7805	
0270	R89-12	28-10-00	4:55	5:11	35,6Ar	H2	0	-	-	0,8098	0,8016	0,7980	0,7944	
0271	R89-12	28-10-00	5:19	5:36	36,2Ar	H2	0	-	-	0,8239	0,8159	0,8120	0,8082	
0272	R89-12	28-10-00	5:59	6:20	36,8Ar	H2	0	-	-	0,8380	0,8298	0,8259	0,8222	Seetram to 10^-10
0273	R89-12	28-10-00	7:00	???	56Fe	Dummy	0	-	-	0,8951	0,8863	0,8839	0,8798	
0274	R89-12	28-10-00	7:53	8:15	38,6Ar	Dummy	0	-20.0	-	0,8849	0,8762	0,8653	0,8734	
0275	R89-12	28-10-00	8:32	8:48	39,9Ar	Dummy	0	-	+35.1	0,9155	0,9066	0,9019	0,8977	

0276	R89-12	28-10-00	8:56	9:12	39.5Ar	Dummy	0	-	+9.1	0.9062	0.8973	0.8924	0.8883	
0277	R89-12	28-10-00	9:27	9:43	38.9Ar	Dummy	0	-0.7	-	0.8920	0.8833	0.8784	0.8744	
0278	R89-12	28-10-00	9:52	10:08	38.0Ar	Dummy	0	-50.9	-	0.8707	0.8622	0.8575	0.8536	
0279	R89-12	28-10-00	10:15	10:30	37.4Ar	Dummy	0	-	-	0.8566	0.8481	0.8436	0.8396	
0280	R89-12	28-10-00	10:38	10:53	36.8Ar	Dummy	0	-	-	0.8425	0.8342	0.8295	0.8257	
0281	R89-12	28-10-00	11:02	11:17	40.5Ar	Dummy	0	-	+65.4	0.9297	0.9206	0.9157	0.9115	
0282	R89-12	28-10-00	11:24	11:39	36.2Ar	Dummy	0	-	-	0.8284	0.8202	0.8156	0.8118	
0283	R89-12	28-10-00	11:48	12:05	41.2Ar	Dummy	0	-	-	0.9461	0.9370	0.9320	0.9279	Seetram to 10^-9
0284	R89-12	28-10-00	12:16	12:31	35.6Ar	Dummy	0	-	-	0.8140	0.8062	0.8015	0.7979	
0285	R89-12	28-10-00	12:37	12:51	41.8Ar	Dummy	0	-	-	0.9603	0.9511	0.9461	0.9418	
0286	R89-12	28-10-00	12:59	13:24	42.5Ar	Dummy	0	-	-	0.9768	0.9675	0.9623	0.9589	
0287	R89-12	28-10-00	13:26	13:28	42.5Ar	Dummy	0	-	-	0.9768	0.9675	0.9623	0.9589	Calibration of Sc21 Wrong trigger
0288	R89-12	28-10-00	13:28	13:33	42.5Ar	Dummy	0	-	-	0.9768	0.9675	0.9623	0.9589	Calibration of Sc21
0289	R89-12	28-10-00	13:42	13:57	35.0Ar	Dummy	0	-	-	0.7999	0.7921	0.7876	0.7840	
0290	R89-12	28-10-00	14:03	14:18	43.2Ar	Dummy	0	-	-	0.9934	0.9839	0.9787	0.9745	
0291	R89-12	28-10-00	14:23	14:49	43.8Ar	Dummy	0	-	-	1.0075	0.9980	0.9926	0.9885	
0292	R89-12	28-10-00	15:05	15:09	56Fe	Dummy	0	-	-	0.8951	0.8864	0.8839	0.8798	Test of TOF
FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS

0293	SE89_3	28-10-00	16:04	??	56Fe 750 A MeV	Dummy	0	-	-	0.8951	0.8864	0.8839	0.8798	Seetram calibration 10-10
0294	SE89_3	28-10-00	16:14	16:18	56Fe 750 A MeV		0	Beam stop						Seetram cal. SC01 was triggering
0295	SE89_3	28-10-00	16:18	16:39	56Fe 750 MeV		0	Beam stop						Seetram cal. Factor 2000 app.
0296	SE89_3	28-10-00	17:10	17:26	56Fe 750 MeV		0	Beam stop						Seetram cal Wrong file
0297	SE89_3	28-10-00	17:27	17:39	56Fe 750 MeV		0	Beam stop						SEE cal with PPAC
0298	SE89_3	28-10-00	18:50	??	56Fe 300 MeV		0	Beam stop						SEE cal, Pb of counter, 100 Hz trigger
0299	SE89_3	28-10-00	19:03	19:15	56Fe 300 MeV		0	Beam stop						Seetram cal
0300	SE89_3	28-10-00	19:25	19:38	56Fe 500 MeV		0	Beam stop						Seetram cal.
0301	SE89_3	28-10-00	19:45	19:58	56Fe 1500 MeV		0	Beam stop						Seetram cal.
0302	SE89_3	28-10-00	20:16	20:19	56Fe 1000		0	Beam						Seetram cal.

FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS
0303	SE89_3	28-10-00			MeV 56Fe 1000 MeV		0	stop Beam stop						Sc01 not in right pos. Seetram cal.
0304	R89-13	28-10-00	21:02	21:??	56Fe	0	0	0	0	1,0829	1,0712	1,0679	1,0691	
0305	R89-13	28-10-00	21:12	21:14	56Fe	0	0	0	0	1,0833	1,0716	1,0679	1,0691	
0306	R89-13	28-10-00	21:19	21:22	56Fe	0	0	0	0	1,0833	1,0718	1,0686	1,0698	
0307	R89-13	28-10-00	21,43	21,47	56Fe	D2	0	0	0	1,0784	1,0668	1,0639	1,0650	
0308	R89-13	28-10-00	21,49	21:59	56Fe	D2	0	0	0	1,0784	1,0668	1,0639	1,0651	
0309	R89-13	28-10-00	22:15	22,18	56Fe	D2	0	0	0	1,0891	1,0776	1,0745	1,0757	
0310	R89-13	28-10-00	22,30	22,34	56Fe	D2	0	0	0	1,0784	1,0668	1,0745	1,0757	
0311	R89-13	28-10-00	23,00	23,15	39,9Ar	D2	0	0	45,2	1,1041	1,0925	1,0912	1,0927	
0312	R89-13	28-10-00	23,21	23,37	39,5Ar	D2	0	0	20,0	1,0929	1,0811	1,0801	1,0814	
0313	R89-13	28-10-00	23,45	23,52	38,6Ar	D2	0	-15	0	1,0673	1,0557	1,0549	1,0560	
0314	R89-13	28-10-00	23,54	00,09	38,6Ar	D2	0	-15,6	0	1,0673	1,0557	1,0549	1,0560	Music gains changed
0,315	R89-13	29-10-00	00:23	00:38	38.0Ar	D2	0	-50.0	0	1.0504	1.0387	1.0381	1.0389	
0316	R89-13	29-10-00	00:43	00:58	37.4Ar	D2	0	0	0	1.0332	1.0218	1.0211	1.0219	
0317	R89-13	29-10-00	01:03	01:18	36.8Ar	D2	0	0	0	1.0164	1.0049	1.0044	1.0050	
0318	R89-13	29-10-00	01:23	01:38	36.2Ar	D2	0	0	0	0.9993	0.9880	0.9877	0.9882	
0319	R89-13	29-10-00	01:43	01:59	40.5Ar	D2	0	0	0	1.1214	1.1094	1.1080	1.1095	
0320	R89-13	29-10-00	02:03	02:18	41.2Ar	D2	0	0	0	1.1412	1.1293	1.1280	1.1295	
0321	R89-13	29-10-00	02:23	02:38	41.8Ar	D2	0	0	0	1.1583	1.1462	1.1449	1.1464	

0322	R89-13	29-10-00	02:44	02:59	35.6Ar	D2	0	0	0	0.9824	0.9712	0.9907	0.9711	Summer time
0323	R89-13	29-10-00	03:12	03:27	35.0Ar	D2	0	0	0	0.9654	0.9541	0.9538	0.9541	Winter time
0324	R89-13	29-10-00	03:32	03:47	42.5Ar	D2	0	0	0	1.1784	1.1660	1.1647	1.1662	
0325	R89-13	29-10-00	03:52	03:07	34.5Ar	D2	0	0	0	0.9511	0.9400	0.9399	0.9402	
0326	R89-13	29-10-00	04:12	04:27	43.2Ar	D2	0	0	0	1.1985	1.1858	1.1847	1.1861	
0327	R89-13	29-10-00	04:37	04:52	33.8Ar	D2	0	0	0	0.9312	0.9204	0.9203	0.9204	Last spills magnets moved
0328	R89-13	29-10-00	04:59	06:13	33.1Ar	D2	0	0	0	0.9114	0.9007	0.9006	0.9007	
0329	R89-13	29-10-00	05:21	05:36	32.4Ar	D2	0	0	0	0.8915	0.8811	0.8808	0.8808	
0330	R89-13	29-10-00	05:53	06:14	38.8Ar	D2	0	-4.1	0	1.0729	1.0615	1.0605	1.0616	
0331	R89-13	29-10-00	06:21	06:35	39.5Ar	D2	0	0	24.0	1.0929	1.0811	1.0801	1.0814	
0332	R89-13	29-10-00	06:40	06:55	39.9Ar	D2	0	0	43.8	1.1041	1.0924	1.0912	1.0926	
					60 Ni	at	500 MeV	beam						Change of projectile Not recorded
0333	R89-14	29-10-00												
0334	R89-14	29-10-00	16:21	16:27	60Ni					0.6971	0.6910	0.6762	0.6762	Dispersion Ta-S2
0335	R89-14	29-10-00	16:32	16:37	60Ni	-	0	0	0	0.6901	0.6843	0.6829	0.6830	Dispersion S2-S4
0336	R89-14	29-10-00	17:01	17:07	60Ni	H2	0	0	0	0.6841	0.6783	0.6701	0.6701	Centered at S2 + S4
0337	R89-14	29-10-00	17:21	17:26	60Ni	-	0	0	0	0.6911	0.6853	0.6772	0.6773	Get radii

0338	R89-14	29-10-00	17:37	17:40	60Ni					Clock	@	1Hz		Seetram calibration
0339	R89-14	29-10-00	17:40	17:57	60Ni					Clock	@	10Hz		Seetram calibration
0340	R89-14	29-10-00	18:55	19:10	47.6Cr	H2	0	-	-	0.6293	0.6241	0.6089	0.6091	S2-S4 wrong field
0341	R89-14	29-10-00	19:16	19:31	56.2Cr	H2	0	-	-	0.7472	0.7407	0.7243	0.7242	S2-S4 wrong field
0342	R89-14	29-10-00	19:37	19:55	55.3Cr	H2	0	-	-	0.7351	0.7285	0.7123	0.7122	S2-S4 wrong field
0343	R89-14	29-10-00	20:05	20:22	48.4Cr	H2	0	-	-	0.6404	0.6351	0.6197	0.6199	S2-S4 wrong field
0344	R89-14	29-10-00	20:31	20:51	49.3Cr	H2	0	-	-	0.6527	0.6474	0.6317	0.6318	S2-S4 wrong field
0345	R89-14	29-10-00	21:04	21:21	54.4Cr	H2	0	-	-	0.7226	0.7163	0.7003	0.7003	S2-S4 wrong field
0346	R89-14	29-10-00	21:31	21:48	53.6Cr	H2	0	-	70.2	0.7117	0.7055	0.6894	0.6895	S2-S4 wrong field
0347	R89-14	29-10-00	22:46	23:01	50.1Cr	H2	0	-54.7	-	0.6637	0.6580	0.6494	0.6495	
0348	R89-14	29-10-00	23:08	23:24	51.0Cr	H2	0	-13.0	-	0.6761	0.6703	0.6616	0.6617	
0349	R89-14	29-10-00	23:32	23:47	52.7Cr	H2	0	-	+33.7	0.6993	0.6933	0.6847	0.6847	
0350	R89-14	29-10-00	23:54	00:10	51.9Cr	H2	0	-	-	0.6884	0.6825	0.6738	0.6739	
0351	R89-14	30-10-00	00:19	00:34	53.6Cr	H2	0	-	+70.	0.7117	0.7056	0.6969	0.6969	
0352	R89-14	30-10-00	00:41	00:56	54.4Cr	H2	0	-	-	0.7226	0.7164	0.7078	0.7077	
0353	R89-14	30-10-00	01:02	01:18	55.3Cr	H2	0	-	-	0.7351	0.7285	0.7198	0.7198	
0354	R89-14	30-10-00	01:26	01:46	56.2Cr	H2	0	-	-	0.7473	0.7407	0.7322	0.7322	
0355	R89-14	30-10-00	01:55	02:10	47.6Cr	H2	0	-	-	0.6293	0.6241	0.6155	0.6156	
0356	R89-14	30-10-00	02:16	02:31	48.4Cr	H2	0	-	-	0.6404	0.6351	0.6263	0.6265	
0357	R89-14	30-10-00	02:39	02:55	49.3Cr	H2	0	-	-	0.6527	0.6574	0.6385	0.6386	
0358	R89-14	30-10-00	03:13	03:22	49.3Cr	Dummy	0	-	-	0.6581	0.6526	0.6477	0.6478	
0359	R89-14	30-10-00	03:29	03:39	49.3Cr	Dummy	0	-	-	0.6580	0.6255	0.6458	0.6460	Same as before s2s4 scaling factor
FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS

0360	R89-14	30-10-00	03:49	04:00	50.1Cr	dummy	0	-59.1	-	0.6689	0.6633	0.6567	0.6567	
0361	R89-14	30-10-00	04:08	04:18	51.0Cr	dummy	0	-17.	-	0.6814	0.6757	0.6689	0.6690	
0362	R89-14	30-10-00	04:25	04:35	51.9Cr	dummy	0	-	-0.1	0.6939	0.6879	0.6812	0.6813	
0363	R89-14	30-10-00	04:49	04:59	52.7Cr	dummy	0	-	+36	0.7049	0.6988	0.6921	0.6922	
0364	R89-14	30-10-00	05:05	05:16	53.6Cr	dummy	0	-	+73	0.7172	0.7109	0.7044	0.7044	
0365	R89-14	30-10-00	05:23	05:42	54.4Cr	dummy	0	-	-	0.7282	0.7219	0.7154	0.7154	
0366	R89-14	30-10-00	05:48	06:08	55.3Cr	dummy	0	-	-	0.7406	0.7341	0.7276	0.7275	
0367	R89-14	30-10-00	06:14	06:34	56.2Cr	dummy	0	-	-	0.7530	0.7464	0.7400	0.7399	
0368	R89-14	30-10-00	06:45	07:01	48.4Cr	dummy	0	-	-	0.6457	0.6402	0.6334	0.6335	
0369	R89-14	30-10-00	07:08	07:21	47.6Cr	dummy	0	-	-	0.6346	0.6294	0.6226	0.6227	
0370	R89-14	30-10-00	08:12	08:20	Beam	Be 4007	0	-	-	0.5815	0.5769	0.5657	0.5659	Tof calibration
					60 Ni	at	1000 MeV	beam						
0371	R89-14	30-10-00	10:30	10:32	60Ni									Wrong trigger
0372	R89-14	30-10-00	10:33	10:58	60Ni									Seetram calibration

0373	R89-14	30-10-00	11:49	12:00	BEAM	/	0	/	/	1,0769	1,0683	1,0623	1,0633	Beam centering
0374	R89-14	30-10-00	12:06	12:11	60Ni	H2	0	0	0	1,0769	1,0683	1,0623	1,0633	Target thickness
0375	R89-14	30-10-00	12:33	12:56	60Ni	H2	0	0	0	1,0719	1,0633	1,0574	1,0584	Beam centered with H2 target
0376	R89-14	30-10-00	13:24	13:39	51.0Cr	H2	0	-12.5	0	1,0616	1,0529	1,0481	1,0489	
0377	R89-14	30-10-00	13:46	14:02	51.9Cr	H2	0	0	4.7	1,0806	1,0721	1,0670	1,0681	
0378	R89-14	30-10-00	14:07	14:22	50.1Cr	H2	0	-50.7	0	1,0424	1,0338	1,0291	1,0299	
0379	R89-14	30-10-00	14:29	14:45	49.3Cr	H2	0	0	0	1,0254	1,0168	1,0124	1,0130	
0380	R89-14	30-10-00	15:01	15:15	52.7Cr	H2	0	0	0	1,0976	1,0890	1,0837	1,0850	
0381	R89-14	30-10-00	15:24	15:42	48.4Cr	H2	0	0	0	1,0063	0,9977	0,9935	0,9940	No beam for last 9mn
0382	R89-14	30-10-00	15:43	15:53	48.4Cr	H2	0	0	0	1,0063	0,9977	0,9935	0,9940	
0383	R89-14	30-10-00	15:58	16:19	53.6Cr	H2	0	0	0	1,1167	1,1082	1,1029	1,1042	
0384	R89-15	30-10-00	16:23	16:39	54.4Cr	H2	0	0	0	1,1340	1,1251	1,1197	1,1212	Tape changed
0385	R89-15	30-10-00	16:52	17:16	55.3Cr	H2	0	0	0	1,1532	1,1444	1,1388	1,1403	
0386	R89-15	30-10-00	17:24	17:44	47.6Cr	H2	0	0	0	0,9894	0,9806	0,9766	0,9769	Strong fluctuations in counter rates of S2 and Seetram.
0387	R89-15	30-10-00	17:54	18:14	56.2Cr	H2	0	0	0	1,1124	1,1635	1,1578	1,1592	
0388	R89-15	30-10-00	18:40	18:42	-	Dummy	0	0	0	1,0762	1,0677	-	-	Beam centered at S2 with MW21 and Dummy target.
0389	R89-15	30-10-00	18:45	18:52	-	Dummy	0	0	0	1,0762	1,0677	1,0616	1,0627	Beam centered at S2 and S4 with Dummy target.
0390	R89-15	30-10-00	20:23	20:27	-	Dummy	0	0	0	1,0869	1,0784	1,0721	1,0734	Dispersion at S2 1%
FILE	TAPE	DAY	BEGIN	END	BEAM	TARGET	DEGRAD	SLITS -	SLITS +	B1	B2	B3	B4	COMMENTS

0391	R89-15	30-10-00	21:52	22:03	51,0Cr	Dummy	0	-12	Open	1,0641	1,0556	1,0506	1,0516	Slits at S1
0392	R89-15	30-10-00	22:16	22:31	51,9Cr	Dummy	0	Open	14,0	1,0833	1,0749	1,0693	1,0707	Slits at S1
0393	R89-15	30-10-00	22:34	22:45	52,7Cr	Dummy	0	Open	44,8	1,1004	1,0918	1,0862	1,0875	Slits at S1
0394	R89-15	30-10-00	22:52	23:03	53,6Cr	Dummy	0	Open	Open	1,1194	1,1109	1,1052	1,1066	
0395	R89-15	30-10-00	23:11	23:21	50,1Cr	Dummy	0	Open	Open	1,0451	1,0365	1,0317	1,0324	Beam to S2 safety interlock
0396	R89-15	31-10-00	00:05	00:15	50.1Cr	Dummy	0	-35.0	Open	1.0451	1.0365	1.0317	1.0324	Beam to S2 safety interlock + S2 valve closed
0397	R89-15	31-10-00	03:05	03:15	50.1Cr	Dummy	0	-50.7	Open	1.0451	1.0363	1.0318	1.0326	Too much rate
0398	R89-15	31-10-00	03:30	03:40	50.1Cr	Dummy	0	-50.7	Open	1.0451	1.0363	1.0318	1.0326	
0399	R89-15	31-10-00	03:50	04:01	54.4Cr	Dummy	0	Open	Open	1,1366	1,1278	1,1224	1,1239	
0400	R89-15	31-10-00	04:08	04:18	47.6Cr	Dummy	0	Open	Open	.9917	.9832	.9792	.9796	
0401	R89-15	31-10-00	04:25	04:40	56.2Cr	Dummy	0	Open	Open	1.1751	1.1659	1.1606	1.1621	

