Run Plan as Scheduled

	A alia ila Alarma		Chart	Finish		_		Novemb	er 20	68			Decen	iber 200	8	_	January 2009					
	Activity Name	Juration	Start	Fillish	/12	10/19	10/26	11/02	11/	09 ·	11/16	11/23	11/30	12/07	12/14	12/21	12/28	01/04	01/11	01/18	01/25	02
1	SANE Run	70	10/25/08	01/23/09	25,	/08 <															01/2	23,
2	Commission 5.9 - 2.4 GeV	13	10/25/08	11/06/08	1728	5708			11/	06/	08											
3	Calibration 2.4 GeV	5	11/07/08	11/11/08			1707	/08		11	/11/0	38										
4	Energy change 2 => 4 pass	1	11/12/08	11/12/08			ן •	/12/	08	11	/12/	08										
5	4.734 GeV parallel	5	11/13/08	11/17/08				1713,	/08		11,	/17/0	8			_						
6	Target rotation 180° - 80°	1	11/18/08	11/18/08				- 11	/18	/08	11	/18/0	18									
7	Chicane alignment	1	11/18/08	11/18/08				- 11	/18	/08	וו 🛉	/18/0	18			_						
8	4.734 GeV 80 deg.	9	11/19/08	11/27/08					ירקר	9708	8		11/27	/08								
9	Energy change 4 pass => 5 pas	1	11/28/08	11/28/08						•1	1/28	/08	11/28	3/08		_						
10	? Chicane alignment (if needed)	1	11/28/08	11/28/08						•1	1/28	/08	11/28	3/08								
11	5.9 GeV 80 deg.	23	11/29/08	12/21/08							1729	708				12/	21/08					
12	Target rotation 80° - 180°	1	01/12/09	01/12/09													01/	12/09	01,	12/0	9	
13	Chicane alignment	1	01/12/09	01/12/09													01/	12/09	101,	12/0	9	
14	5.9 GeV parallel	10	01/14/09	01/23/09													01	/14/0	19		01/23	37

	(Calibratior	l		Da	ata	Mol	ler	С	runs	Comr	miss.	
Energy - field angle	gy - field angleB OFF0°180°		180°	4.7	4.7 80°	5.9 80°	5.9	180°	80°	180°	80°	5-р	2р
Run plan calendar days12			2	5	9	23	10					11	2
Run plan PAC hours	12	24	24	60	108	276	120					132	24
Proposal hours	12	24	24	70	130	200	100	7	14	7	13	144	
Proposal data + systematics	76	141	216	108	4	8	4	8					
Efficiency (proposal+syst.)/run pla	1.26	1.30	0.78	0.90									

Run Plan Requested

•	half site blance	.	Chart	Fisish			November 2008 December 2008								Jar	January 2009					
Ŷ	Activity Name	Juration	Stan	Finish	(12	10/19	10/26	11/02	11/09	11/16	11/23	11/30	12/07	12/14	12/21	12/28	01/04	01/11	01/18	01/25	02/
1	SANE Run	70	10/25/08	01/23/09	(25,	/08 <												_		01/2	3/
2	Commission/Calibration 2.4 GeV	5	10/25/08	10/29/08	1/2	5/08		10/29	/08						-						
3	Commission 4.7 GeV	4	10/30/08	11/02/08	ון	0/30,	/08	1 1,	/02/08	3											
4	4.734 GeV parallel	7	11/03/08	11/09/08		11/	03/0	18	11/	09/08	3										
5	Target rotation 180° - 80°	1	11/10/08	11/10/08			11	/10/0	8 11	/10/0	8										
6	Chicane alignment	1	11/10/08	11/10/08			11	/10/0	87 11	/10/0	8										
7	Commission 80°	6	11/11/08	11/16/08			1	1/11/0)8 *	11/	16/08										
8	4.734 GeV 80°	11	11/17/08	11/27/08				11	7/08	3	· · · · · ·	1/27	/08								
9	Chicane alignment	1	11/28/08	11/28/08						11/28	/08	11/28	3/08								
10	Energy change 4 pass => 5 pass	1	11/28/08	11/28/08						11/28	/08	11/28	3/08								
11	5.9 GeV 80°	23	11/29/08	12/21/08						11/29	9/08 <mark>1</mark>				12/:	21/08					
12	Target rotation 80° - 180°	1	01/12/09	01/12/09												01/	12/09	101/	12/04	7	
13	Chicane alignment	1	01/13/09	01/13/09												01,	13/09	01	/13/0	19	
14	5.9 GeV parallel	10	01/14/09	01/23/09												01	/14/0	9		01/23	/0

	(Calibratior	า		Da	ata		Moller		C runs		Comr	niss.
Energy - field angle	field angle BOFF 0° 180°		4.7	4.7 80°	5.9 80°	5.9	180°	80°	180°	80°	4-p	2p	
Run plan calendar days	1	2	2	7	11	23	10					10	0
Run plan PAC hours 12 24 24				84	132	276	120					120	0
Proposal hours	12	24	24	70	130	200	100	7	14	7	13	144	
Proposal data + systematics	76	141	216	108	4	8	4	8					
Efficiency (proposal+syst.)/run plan (relative to 50%)					1.07	0.78	0.90						

Run Plan and Target Materials

- Plans for irradiation of new target material
 - Cool down at UVA in August to select existing and possible newly NISTirradiated material for run: we need a minimum of 4 cup loads that polarize to > 85% in the lab in < 1 hr.
 - Assuming we need additional material, plan to use up to 12 h of beam at 1000 nA, during commissioning or calibration to irradiate, followed by an anneal and TE to measure polarization
 - 12 h irradiation at 1000 nA would deliver a very uniform dose of ~2.7x10¹⁷ electrons/3.6 cm² raster area
 - we could use the calibrations at 1 μ A to irradiate even more material. The run plan includes 120 h of 1 μ A calibration beam, so we could irradiate two full inserts to ~ 10¹⁷ /cm². The BETA PMT's would be off.
 - another option is 90 h irradiation at 150 nA during BETA's commissioning to allow operation of the PMT's at reasonable rates.

Run Plan before Delay

		iration)cto	ber 08			Nove	ember 08			December 08					
	Activity Name DL	iration		5	12	19 26	2	9	16	23	30	7	14	21	28	4
1	SANE Run	67	0/-	1/08 🤙										i 12/2	1/08	
2	Commission 5.9 - 2.4 GeV	13	10	11/08		10/23/0	80									
3	Calibration 2.4 GeV	5			10/2	24/08	0/28/0)8								
4	Energy change 2 => 4 pass	1				10/29/08	10/29	/08								
5	4.734 GeV parallel	5				10/30/08		11/03/08								
6	Target rotation 180° - 80°	1				11/0	4/08	11/04/08								
7	Chicane alignment	1				11/0	4/08	11/04/08								
8	4.734 GeV 80 deg.	9				11/0	05/08		11/13/08							
9	Energy change 4 pass => 5 pass	1						11/14/08	11/14/08	3						
10	? Chicane alignment (if needed)	1						11/14/08	11/14/08	3						
11	5.9 GeV 80 deg.	21						11/15/08	×			1	2/10/08			
12	Target rotation 80° - 180°	1									12/	11/08	12/11/08	3		
13	Chicane alignment	1									12/	11/08	12/11/08	3		
14	5.9 GeV parallel	10									12	2/12/08		12/21	/08	

	(Calibratior	۱		Da	ata		Moller		C runs		Comr	niss.
Energy - field angle	B OFF	0°	180°	4.7	4.7 80°	5.9 80°	5.9	180°	80°	180°	80°	5-p	2р
Run plan calendar days	1	2	2	5	9	21	10					11	2
Run plan PAC hours	12	24	24	60	108	252	120					132	24
Proposal hours	12	24	24	70	130	200	100	7	14	7	13	144	
Proposal data + systematics	76	141	216	108	4	8	4	8					
Efficiency (proposal+syst.)/run pla	1.26	1.30	0.86	0.90									