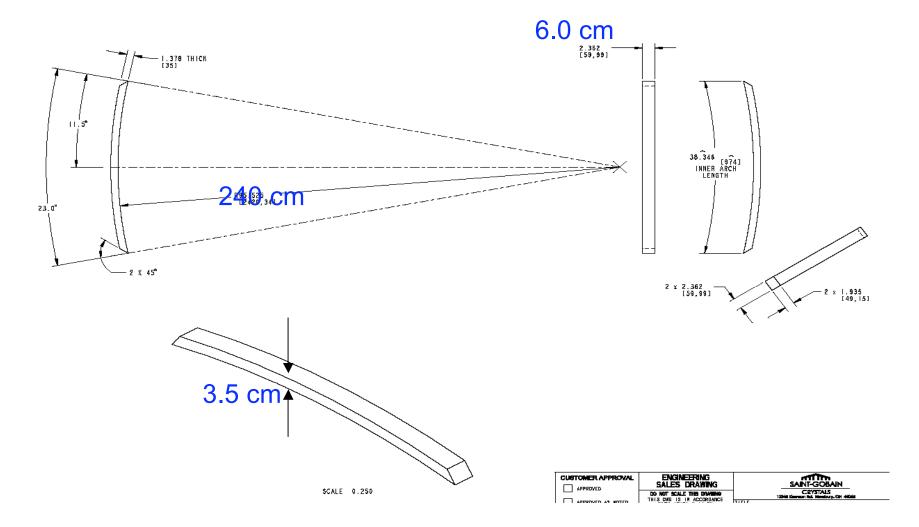
Lucite Cerenkov Hodoscope Status

A. Ahmidouch, S. Danagoulian SANE Working Group Meeting, Oct 26, 2007

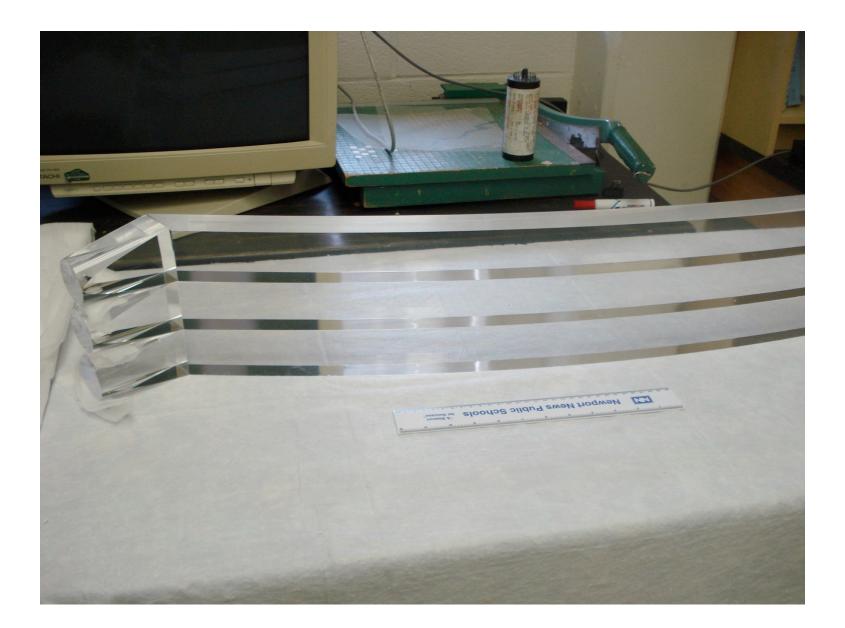
- 1. Detector Status
- 2. Electronics
- 3. Schedule

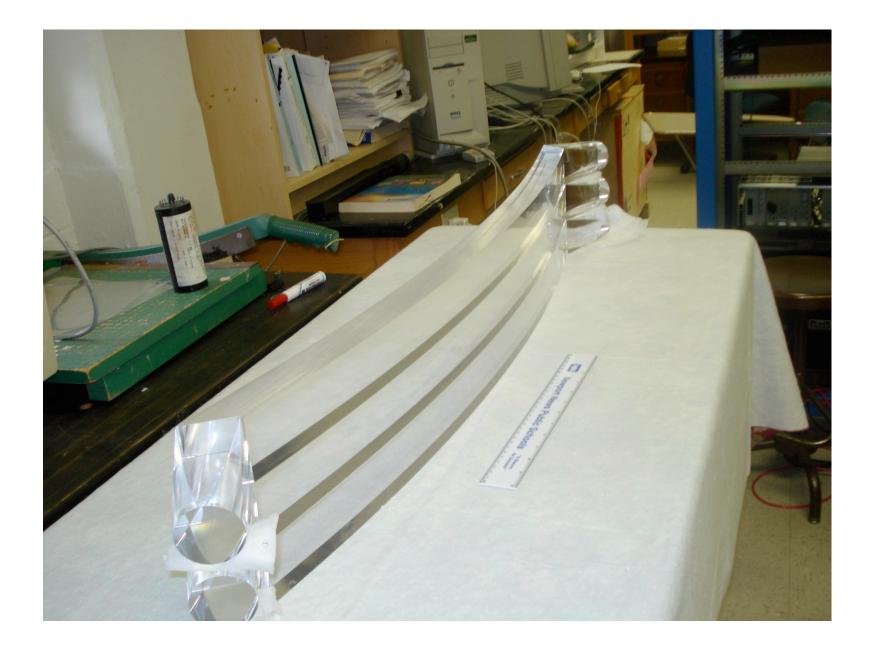
Lucite Cerenkov Hodoscope 28 BC-800 bars: 3.5 x 6.0 x 96.7--91.5 cm³ curved



Specs:

- 28 Lucite bars: BC-800, 3.5 x 6.0 x 96.7--91.5 cm³, n=1.49, Beta_threshold =0.67, propagation of C-light by total Internal reflection.
- Curved to 240 cm, Normal incidence from target
- Edges cut at 45 deg (avoids reflections)
- Light guides (4.9 x 6.0 cm²) to 4.9 cm (circular)
- 2" PMTs: Photonis xp2268, 1.5 mm mu-metal







Status:

- 6 detectors ready
- (4 students involved) -- Will finish all remaining detectors (22) by mid Nov.
- PMT assembly?

Electronics

60 (56+ 4 spares) channels of:

 Discriminators (16-ch. Lecroy 4413), available from LEGS/BNL

"

"

- Splitters available at JLab
- Amplifiers
- TDCs
- ADCs "
- Delay cables (need to be ordered)

Schedule of Tasks

- Prototype 1 construction
- Prototype 1 cosmic tests
- SOS Hall test (1), E05-017
- Prototype 2 ordered/received (3 Lucite bars and 6 light guides)
- 60 XP2268 PMTs & bases
- Mu-metal order
- Frame design
- Receive all 28 Lucite bars & 56 light guides
- Full construction
- Detectors on frame
- Lucite Detector ready
- GepIII test

July 2006 July 2006 – March 29, 2007 March 30 – July 13 Feb 22 / June 14, 2007

June 21, 2007 July 2007 March 1st – June 14, 2007 July 26, 2007

July 26 – December 20, 2007 December 30, 2007 January 2008 October 2007 / March 2008

		Activity Name	Duration	Start	5 1Q	06 2 F M /	2006 A M J	3Q06 JAS	4Q06 OND	1Q07 J F M	2007 : A M J -	30,007 JAS	4Q07	1Q08 J F M	2Q06 A M J	3008 JAS	4Q08	1Q09 J F M	2009 AMJ	30,09 JAS	4Q.09
1	-	SANE	1090	09/15/04													09/2				
2	-	BETA	954	09/15/04							· ·				O4	/28/08	3				
3	+	BigCal	623	09/15/04											03/2	5/08					
4	+	Gain Monitor	697	09/27/04							0	5/29	07								
5	+	Gas Cherenkov	857	09/15/04										12/2	1/07						
6	-	Forward Tracker	830	10/18/04							· ·			12/1	9/07						
7		Lucite tests	60	10/18/04							:										
8		Quartz procurement	40	11/01/04							:										
9		Quartz tests	60	02/20/06	tests		M.	Khan	daker	V. Dh	armaw	/ardc	ane								
10		Fibers on scintillator	0	08/07/06		08,	/07/0	6 ∛ Fik	ers or	scint											
11		Final design & Parts procureme	280	08/07/06	rts pro	ocur	eme	nt 🗖													
12		Partial construction	60	01/22/07		Pc	artial	const	uctior												
13		SOS tests	60	04/16/07					SC	S tests		•									
14		Full construction	60	09/03/07					F	ull cor	nstrucți	on	M	1. Kha	ndake	r,E. Je	nsen,/	A. Ma	sh		
15		GEp-III tests?	18	11/26/07							GEp	-III tes	sts? 📜								
16	-	Lucite Hodoscope	484	07/04/06	0	7/04	1/06 <	>							04	/28/08	3				
17		Prototype 1 construction, cosm	194	07/04/06	, cos	mic	tests		1		:										
18		SOS/In Hall Tests	69	04/02/07				SOS/	In Hal	Tests		S. Do	anago	ulian							
19		Prototype 2 procurement	80	02/26/07	Pr	rotot	type:	2 proc	urem	ent 🗖		A Ah	midou	ch							
20		Frame design	97	02/01/07				Frame	desig	n 🗔		3. Me	tzger								
21		Complement procurement	110	02/21/07	Cor	nple	men	t proc	ureme	ent 🗖		A. /	hmid	ouch							
22		Full construction	108	07/25/07					Full	consti	ruction	•		S. Da	hagou	ilian,A	. Ahm	idouc	h,Mar	tin,Pav	wlos,
23		Assembly	5	12/24/07							:	Asse	mbly								
24		GEp-III test period	49	03/03/08							GĘ	o-III te	əst pei	iod 🖢							