## **GLAST Tracker Action Items**

Task ID	2	Project ID 1			
Task Description		Fix SSD strip pitch			
Lead		Hartmut Sadrozinski			
Open-Date Action-II		Action Description	Person-Responsible Close-Da	How Closed	
3/29/00	30	Derive a specification on Signal/Noise for the tracker.	Hartmut Sadrozinski 4/12/	00 Hartmut wrote up a note on signal-to- noise issues. This will be used to formulate a spec in the tracker requirements document.	
4/12/00	38	Call Taka to arrange a meeting to organize work on the efficiency measurements.	Wilko Kroeger		
4/12/00	34	Communicate with Steve Ritz about the science implications of a change in pitch.	Robert Johnson 4/13/	00 Spoke to Steve on the phone. At the 15% level we don't expect to fall off of any cliffs. He still is concerned about the loss of psf at highest energies.	
4/12/00	33	Send configurations to Guido and Takashi for comparative electric field calculations near the detector implants.	Hartmut Sadrozinski		
4/12/00	32	Measure at the detection efficiency for inclined hadrons in the beam-test data.	Robert Johnson		

Task ID	7	Project ID 3				
Task Description		Research adhesive for edge gluing of detectors.				
Lead						
Open-Date Action-IE		Action Description	Person-Responsible Close-Date	e How Closed		
3/7/00	2	Test UV curing adhesives for detector edge gluing before finalizing the jig design.	Eduardo			
3/7/00	1	Contact Hiroshima about using some of the 9.5cm square detectors from Hamamatsu for testing ladder assembly methods.	Hartmut Sadrozinski			
4/19/00	40	Work out a strategy for the use of mechanical samples in the near term.	Gwelen and Eduardo			
4/25/00	43	Investigate localized heat curing as fallback to UV glue	Ossie			
4/25/00	42	Write ladder requirements document.	Eduardo			
4/25/00	41	Complete drawings of the ladder gluing jig and glue dipping apparatus	BJ and John			
4/25/00	44	Measure flatness of mechanical samples.	Ossie			
Task ID	15	Project ID 5				
Task DescriptionRedo the layout of the hybrid PC board.						
Lead		Robert Johnson				
Open-Date Action-II		Action Description	Person-Responsible Close-Date	How Closed		
3/29/00	26	Make a drawing of the hybrid with 7 screw holes, plus 2 by each connector.	BJ 4/3/00	BJ made the drawing and sent to Robert and Gwelen.		

Tuesday, May 02, 2000

3/29/00	28	Check prices for thermal vacuum chambers from commercial vendors.	John Broeder	
3/29/00	29	Take a look at what Peter Michelson has in terms of vacuum equipment that we could use.	Hartmut Sadrozinski 4/5/00	Hartmut looked at the piles of stuff in HEPL. It is not organized, so some effort would be required to use any of it. Peter may be able to supply a technician to put something together for us if we deliver a specification.
3/29/00	27	Search around SLAC for a suitable vacuum chamber.	John Broeder	
Task ID	10	Project ID 8		
Task Descri	ption	Thermal testing of ladder/face-sheet assembl	ies	
Lead		Gwelen Paliaga		
		-		
Open-Date	Action-ID	Action Description	Person-Responsible Close-Date	How Closed
<b>Open-Date</b> 3/22/00	Action-ID	Action Description Obtain specifications for the required survival temperature range.		How Closed Operation: -10C to +25C, testing to 10C beyond in both directions. Survival: -20C to +40C, testing to 10C beyond in both directions.
		Obtain specifications for the required	Martin Nordby 4/12/00	Operation: -10C to +25C, testing to 10C beyond in both directions. Survival: -20C to +40C, testing to
3/22/00	13	Obtain specifications for the required survival temperature range. Get more information from Lockheed on	Martin Nordby 4/12/00 Martin Nordby 4/12/00	Operation: -10C to +25C, testing to 10C beyond in both directions. Survival: -20C to +40C, testing to 10C beyond in both directions. -20C to +40C, with testing to 10C

4/5/00	8	Send a partial sample of the Kapton bias circuit used in the BTEM to Eric Ponslet	Gwelen Paliaga 4	4/5/00 Sample was sent to Eric.
4/5/00	14	Make 3 test ladders: 1. 300um C with Si glued in patches 2. Same but Si glued over full area 3. Add 75um C between Pb and Kapton	Gwelen Paliage	
4/12/00	35	Analyze representative C-Pb sandwiches and summarize the results in a report. Included will be 300um C/3.5% Pb/75um C, since that is what we have materials to construct at present.	Eric Ponslet	
4/12/00	36	Talk to Ed Garwin about making the CTE (and modulus) measurements on C-Pb structures at SLAC.	Eduardo	
4/12/00	37	Send information on the BTEM 75um carbon face sheets to Eric.	Martin Nordby	
4/12/00	39	Put the 38-cm tray drawings on the Hytec web site and make them available to SLAC and UCSC.	Erik Swensen 4/	/14/00 Erik sent out an email with information on how to access their web page.
Task ID	17	Project ID 9		
Task Description		Convert the layout of GTFE64 cells from Cad	dence to Tanner.	
Lead		Vallon Chen		
Open-Date Action-II		Action Description	Person-Responsible Close	e-Date How Closed
3/13/00	3	Test the conversion of layouts from Cadence to Tanner	Vallon Chen	

3/13/00	4	Finish the layout of the front-end and digital block test chip and submit to MOSIS.	Vallon Chen
3/27/00	24	Finish the layout and LVS of the analog/digital test chip.	Vallon Chen
4/3/00	16	Review the calibration system design for the new test chip.	Ned Spencer
1/13/00	5	Explain to the ASIC group the design of Vallon's SEU-hard cell.	Vallon Chen
3/13/00	7	Simulate Vallon's rad-hard cell and Rockett cell in Tspice	Ned Spencer
3/13/00	6	Explain the Rockett SEU-hard cell design to the ASIC group.	Ned Spencer
3/27/00	23	Simulate the two SEU hard cells in S-Spice.	Ned Spencer
5/3/00	17	Find publications on NRL laser system for SEU testing and give to Ned.	Hartmut Sadrozinski
3/27/99	22	Try out the Tanner LVS.	Ned Spencer
3/27/00	21	Introduce the planned logic changes into the command decoder schematic and do the logic simulation in Viewsim.	Robert Johnson
4/3/00	15	Use the Tanner place and route first on the unmodified cells and check with LVS.	Ned Spencer
5/3/00	18	Prepare an EDIF schematic for Tanner to try to input into S-Edit	Robert Johnson
3/27/00	25	Start testing the translation of the layout from Cadence to Tanner	Vallon Chen

Tuesday, May 02, 2000

3/27/00	20	Talk to the Japanese collaborators about holding a heavy ion beam test for latchup and SEU studies in August 00.	Hartmut Sadrozinski	
Task ID	24	Project ID 11		
Task Desci	ription	Make noise measurements on the BTEM tow	ver electronics with and without cond	current readout.
Lead		Wilko Kroeger		
Open-Date Action-I		D Action Description	Person-Responsible Close-Date	e How Closed
4/5/00	11	Test the noise occupancy in the presence of the ACD power supplies and while using the Perugia test power supply.	Wilko Kroeger	
4/5/00	12	Measure the TOT width distribution using an oscilloscope	Wilko Kroeger	
Task ID	40	Project ID 15		
Task Desci	ription	Tower thermal analysis and wall design.		
Lead		Erik Swensen		
Open-Date Action-II		D Action Description	Person-Responsible Close-Date	e How Closed
3/27/00	19	Review the electronics thermal requirements, to revise the specification for the maximum operational temperature.	Robert Johnson 4/14/00	25C operational upper limit. Hartmut's analysis shows some loss of efficiency only in worst-case conditions: end-of-life and 5X expected radiation dose with this temperature. A lower temperature spec will be too expensive and constraining on the thermal design.