

RPC+ Meeting

Argonne, December 7, 2007

RPC construction (glass, channels)
Gas system
HV systems

Guarino, Repond
Northacker
Norbeck

Pad- & FE-board design
Data concentrator design

Drake
Drake

Data analysis: error modes
 muon data
 electron data

Xia
Bilki, Repond
Mavromanolakis, Xia

DAQ software developments
Interface to CALICE DAQ

Kreps, May
Schlereth

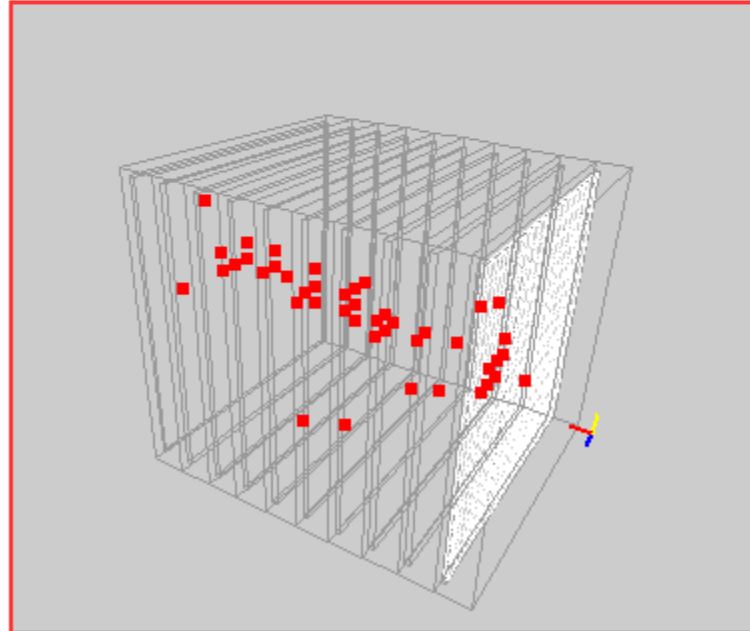
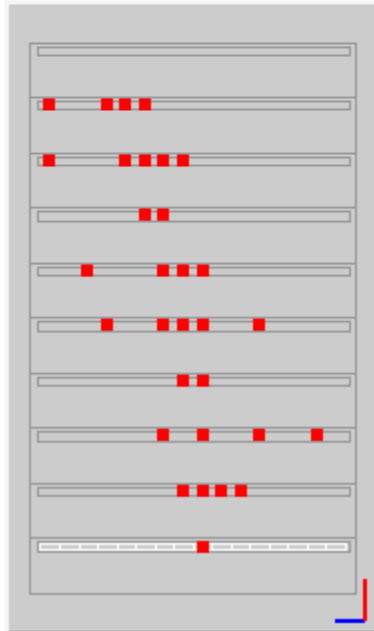
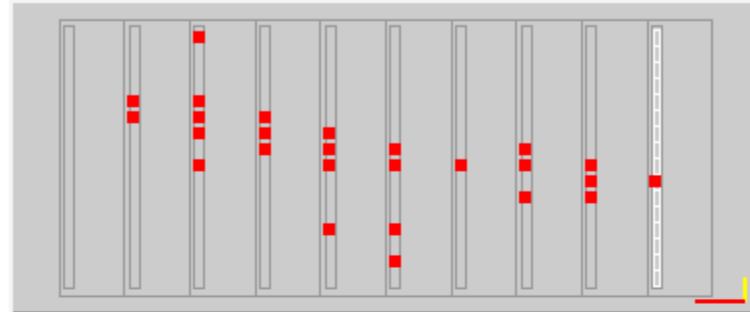
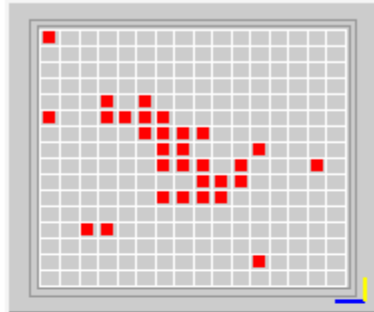
Schedule and plans

All

Most beautiful pion event

Run 208:0 Event 114

Time: 3511590
Hits: 44 Energy: xxx mips





December 6, 2007

Quotation

Ken Wood
Mechanical Engineering Assistant
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60439
USA

Quote Number: 062331RO
RFQ Number: Email
Terms: Net 30 Days
FOB: South Elgin, IL
Delivery: 3 Weeks ARO
Quote Valid: 30 Days

Tel: (630) 252-3971
Fax: (630) 252-1184

	<u>Quantity</u>	<u>Unit Price</u>
Part Number: 37.79 x 12.598 x 1.25MM SL	300	\$12.95
Blue Print: No	10	\$23.40
Samples: No		
Tooling Charge: No		
Crate Fee: \$50 per release		

Dimensions: 37.790" x 12.598" (+/- .030")
Material: 1.25MM Soda Lime (.043/.053") – Currently running 0.46/.048"
Edgework: Cut / Seam
Sandblast: No
Temper: No
Surface Quality: ASTM 1036 Q3
Max. Edge Chip: .040"
Package: Paper Interleave / Crate

Special Instructions:

*Shipment quantities will be +/-10% of order quantity.
Lead time is dependant upon material availability.*

Cat i Glass is prepared to be very responsive to your needs. Please note that quoted lead time is an estimate as of this date. Specific delivery dates will be provided at the time of order, contingent upon facility loading.

Sincerely,

Ryan O'Connell
New Product / Marketing Analyst
ryan@catiglass.com

Ordered 10 pieces

Measurements with Cosmic Ray Test Stand

- | | |
|--|---|
| a) Install and test new DCON firmware (chamber 7) | 3 |
| - Test with CRs | |
| - If successful install on all DCON | |
| b) Measure noise with Lecroy power supply | 1 |
| c) Change grounding and study error modes | 4 |
| d) Study inefficiencies of layers 3, 4, 5 | |
| - Test with inverted high voltage | |
| - Take off chambers + run charge injection | |
| e) Measure pad multiplicity with extra Mylar (1 – 10 sheets) | |
| f) Measure noise with DCOL and self-trigger | 2 |
| - Measure with Droege and Lecroy | |
| g) Gang 3 chambers gas I/O and measure performance | |
| h) Operate stack with 2 DCOLs | |
| i) Investigate exotic chamber | |
| j) DAQ rate studies | |
| k) Study of charge injection parameters | |
| l) Long term studies (x-y map) | |

Schedule and plans

Next meeting January 4, 2007

Large RPCs	Get glass quote, test urethane, silicon paste, look at PVC samples	
Gas system	Test ganging	
HV	Test with LeCroy	
Pad- & FE board	Fabricate and begin test	
Data concentrator	Initiate design	
Error modes	Further understanding Explore different grounding Implement new firmware	
Data analysis	Reconstruct data Create SW 'killer' Continue muon analysis Continue positron analysis Repeat noise measurement with Bertan and Lecroy	
DAQ	Meet with Boston Refine strategies Further discussions on overall architecture	