

Coordinate Detector Update

Mahbub Khandaker

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Scintillator production

- Production of all ($\sim 1,340$) scintillator strips by Fermilab has been completed on April 7.
 - 1,107 220-cm long strips.
 - 101 170-cm long strips
 - 131 120-cm long strips
- CDet specifications: width = 40 mm, thickness = 7.0 mm, with central hole $\varnothing = 3.0$ mm.
- Produced 785 “best” strips with widths (39.34 – 39.49 mm), thickness (7.35 – 7.42 mm), and central hole \varnothing (3.48 – 3.62 mm).
- 1,107 220-cm long strips have been shipped to Eljen Technology for precision machining of the top and bottom surfaces to make thickness uniform to 5.0 ± 0.08 mm.
- Eljen will machine 700 of the “best” strips that will be used to build CDet. As of May 1, Eljen has completed machining of 200+ strips. The rest 500 strips will be completed within the next three weeks.
- After machining of the strips is completed, Eljen will ship them to Carnegie Mellon for cutting into 51-cm long strips.

- 2 mm \varnothing BCF-92 fast blue to green shifter:
 - emission peak λ 492 nm (PMT's peak λ 420 nm)
 - decay time 2.7 ns
 - 1/e length >3.5 m

- A total length of 2,860 m of fiber has been produced by Saint Gobain and delivered to JLab on April 10.

- All engineering drawings for scintillator module and support structure have been checked for completeness and integrity.
 - 20 drawings for module design
 - 22 drawings for frame design
- Detailed technical documentation has been produced.
- JLab Engineering Group doing final checks for approval.
- Two vendors have been contacted for quotations, one has been received.

Frontend boards

- Design of NINO based A/D boards finalized and 2 cards are currently under production. Once these cards are verified, large scale production of all 168 cards will begin.
- Design of equalizer boards for adjusting PMT gain variations completed and fabrication of cards will start by end of May.
- Technical manpower for PMT work identified, Vitaly Baturin from JLab and two of Adam's students from SMU.