

Mirror status for beam test at CERN

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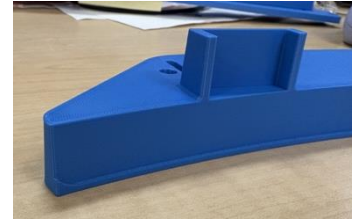
April 16, 2026

Status and Plan:

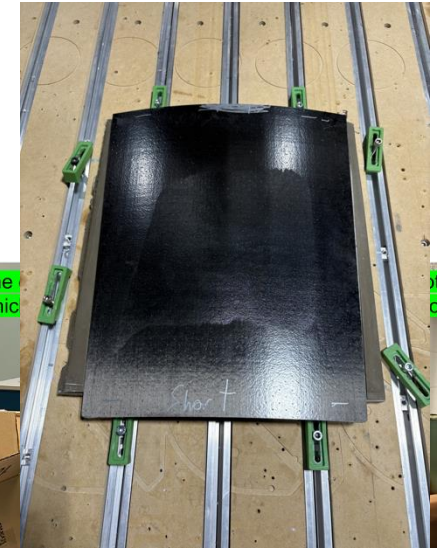
- **~ 2 weeks go:** Substrate modification request was sent 2 weeks ago from BNL to Purdue.
- **~ April 22:** The substrate making is currently ongoing → estimate to be done by Wednesday next week
- **~April 24:** Shipment is expected to arrive by end of next week.
- **~ May 1st:** SBU will perform coating on that substrate upon receiving the Purdue shipment.
- **After May 5th,** BNL will try an alternative design for mirror holding mechanism with Lexan only. (need support from engineers)

Issues:

- Evaporator chamber has a motor problem. Needs to be fixed for uniform coating. Not sure how long does it take.
- Students are very busy towards the end of semester.
- May or may not be able to catch the May 5th shipment.

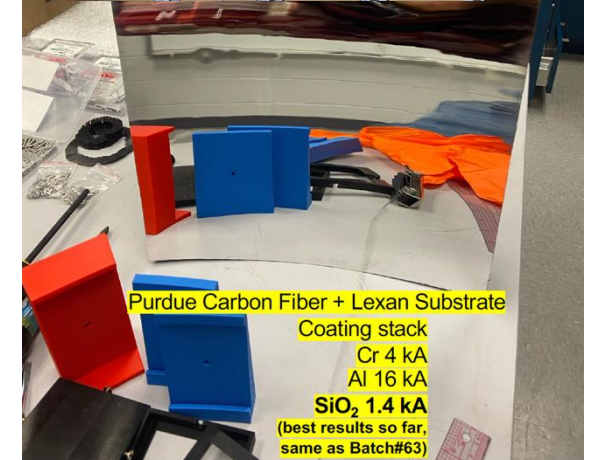


As of 11am today from Simon



The
whic

it rotate,
or



Purdue Carbon Fiber + Lexan Substrate

Coating stack

Cr 4 kA

Al 16 kA

SiO₂ 1.4 kA

(best results so far,
same as Batch#63)