

# Beam Tests

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# Equipment for the Beam Tests

## CERN:

- 3 SFILs: Available at ANL, may require **thinning the back Aluminum boards**
- Lightguides: we have 16 (2 SFILs instrumented), **we will need 8 more**
- Cookies: I think we have enough
- Bulk section: from BICKorea (Baby BCAL as a backup, if so we need to have HGCROC readout in place to sync with SFILs)

## SiPM Boards:

- We have URegina boards to instrument SFILs, but they can instrument only 10 cells and they are very bulky, good for initial testing
- I propose we go with SFILs boards by Gabor: we will have 3 in hand soon (12 **SiPMs**), for the beam test **we will need 3 more**:
  - Can we adjust the design to have mini SiPM boards so we don't have to reflow every time?
  - We will need **2 more samtec cables**
  - We will need **12 more SiPMs**
- **AstroPix: 9-chip pcbs (ideally 6 for coverage) or 3 quads in sync with HGCROC**

# Equipment for Hall D

## Depending on timeline

- 3 SFILs with HGCROC and (3 layers of) AstroPix + Baby BCAL (same setup as CERN)
- Stand-alone DAQ
- If not ready, we should go maybe with SFILs only for a smaller setup