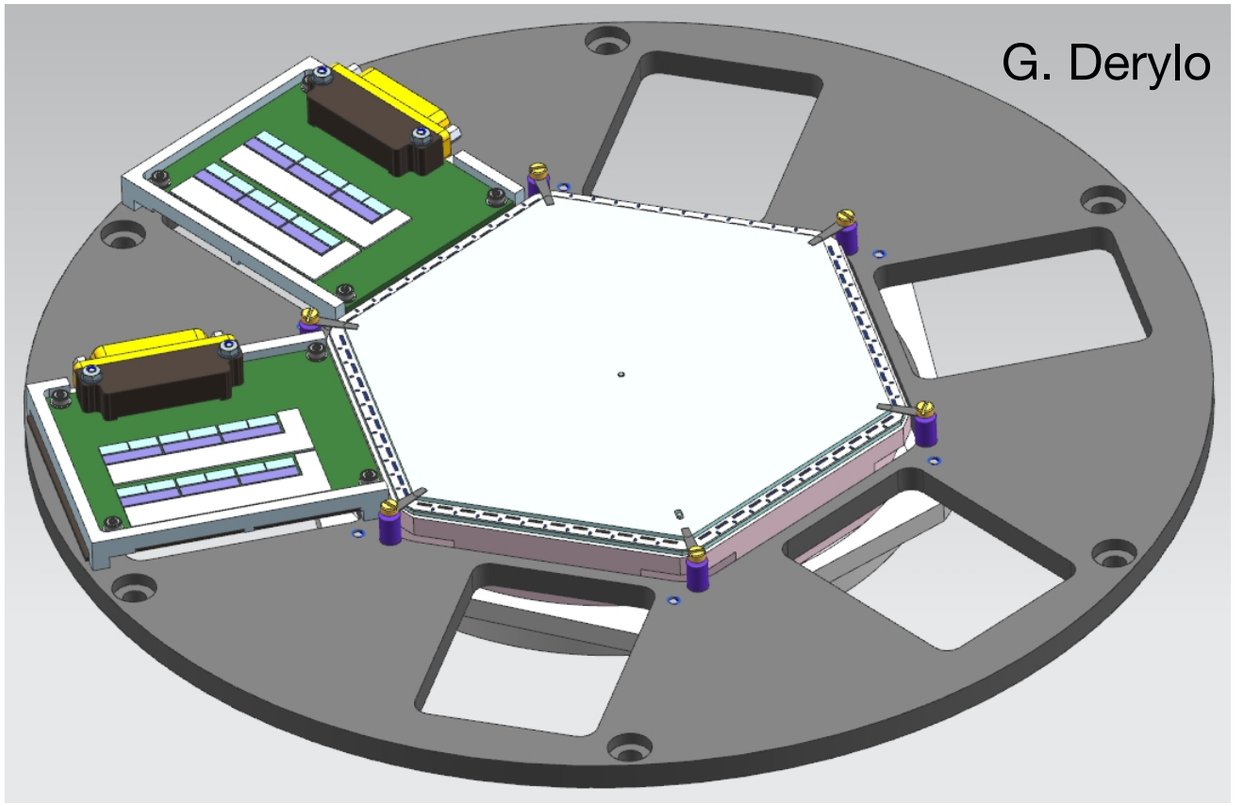
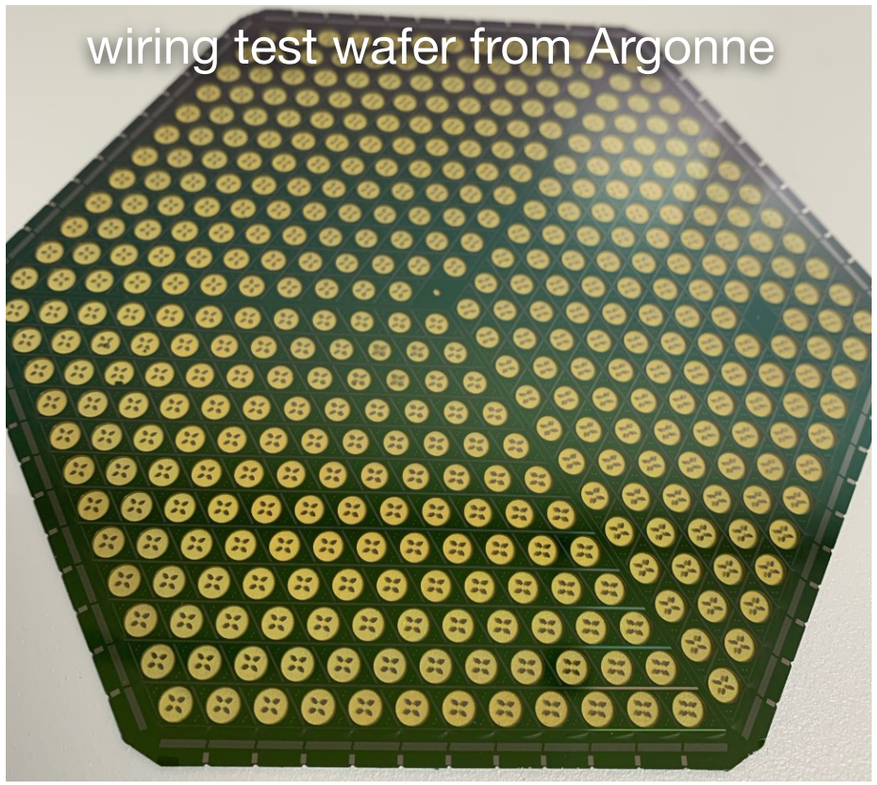
Module Status - CDFG

- ***Due 3/26:*** "CDFG module and feedhorn designs":
  - Nearly done for dark tests (see right); remaining iteration on readout design, magnetic shielding, and verifying fit in Fermilab, SLAC, UIUC cryostats (drawings incomplete)
- ***Due 6/18:*** "Procure"… "Receive prototype parts…"
- ***Due 7/2:*** "Test assembly of detector module with dummy detector wafer, including 4K cryogenic mechanical test":
  - "Dummy wafer" received at Fermilab this week from Argonne (see right)
  - Plan a series of wirebonding tests while waiting for CDFG module parts
- ***Test cryostat commissioning progress***:
  - UIUC fridge delivered recently
  - Fermilab fridge delivered recently and installation starting tomorrow





Module Status - Production

- Two design concepts (“v1” and “v2”) have been developed for production module

- Making further progress requires more detailed specification of wafer dimensions for all bands and LAT/SAT to define available space

- Space requirements are quite tight, and SAT MF sensitivity requirements require careful minimization of dead space between modules to minimize wafer pitch

- Basic wafer layout needs to be joint optimization across detectors, readout, modules, SAT, and LAT

v1 module

v2 module