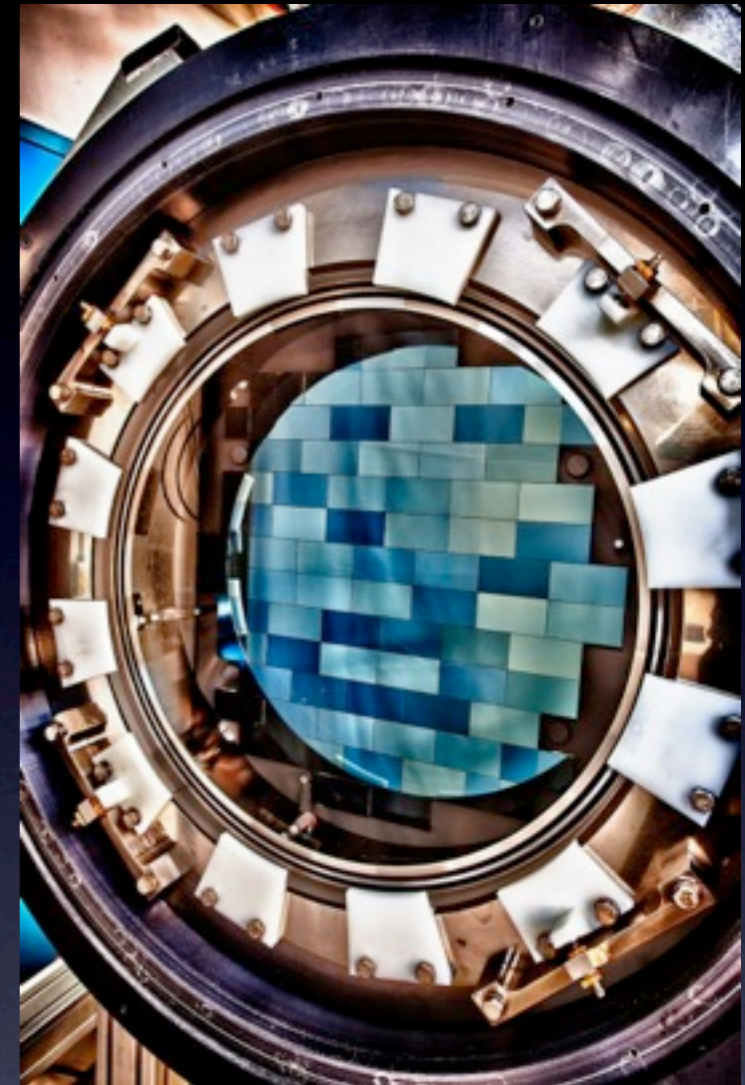


Dark Energy Survey (Type Ia SN WG)

- Dark Energy Survey (DES), DECam:
- 500 Mpix camera: CTIO 4m, Chile.
- **SN Ia: Beamline::DECam: ALS**
- Difference imaging to find candidates.
- Real-time turnaround essential.
- Spectroscopic follow-up (expensive) using the largest telescopes on Earth.
- Who sent **what candidate** to **what telescope** and **when** and **why**? What do we know **right now**?
- Construct “dossier” on each supernova over 5 years.



DECam Focal Plane

ATC

- ATC (All Targets Considered? Air Traffic Control?)
- Web application with a secure REST API for scripting. (humans and robots, working together, mass hysteria).
- Mobile friendly (trigger follow-up over cocktails).
- “Everything is a post” --- target summary is built from a map-reduce operation. “Most recent of everything.”
- **Technologies:** MongoDB, PostgreSQL. Flask for app. Twitter bootstrap for layout. NERSC handles auth for web, I handle REST API auth with signature matching.