

BIC Workshop,  
May 14, 2024

# *Barrel Imaging Calorimeter* **Beam tests - Discussion**

**Maria Žurek**  
PHY, Argonne National Laboratory



# Irradiation Studies

## SiPMs:

Irradiation studies of SiPMs in UC Davis: <https://indico.bnl.gov/event/23121/>

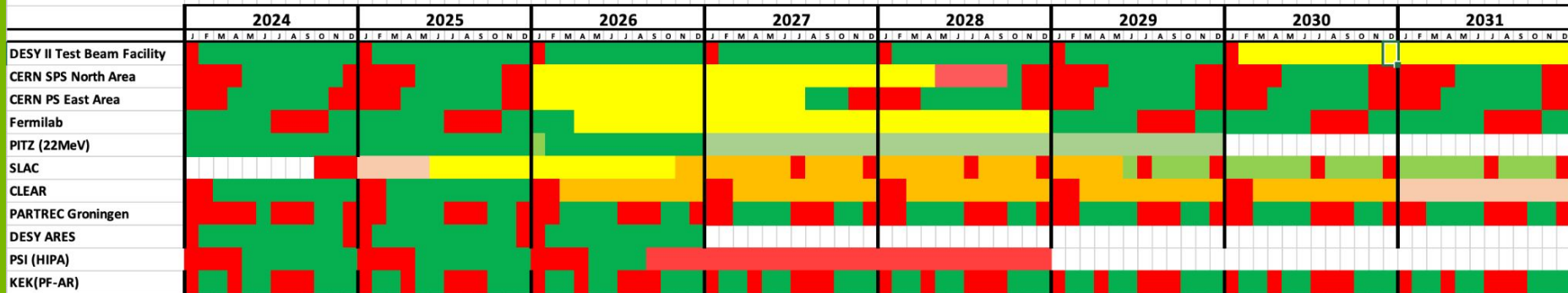
8 refurbished S13360-6050 (50  $\mu\text{m}$  pixel, 6x6  $\text{mm}^2$ )

12 new S14160-6050 (50  $\mu\text{m}$  pixel, 6x6  $\text{mm}^2$ )

Might get extra possibility at ITA Facility at FNAL

- Much higher doses
- Larger uncertainty on small dose (irradiation out of the beam)

Running	1
Winter/Summer Shutdown	2
Longer Shutdown	3
Unclear	4
Likely	5
Pending Approval	6



Running	1
Winter/Summer Shutdown	2
Longer Shutdown	3
Unclear	4
Likely	5
Pending Approval	6

# To consider

- For our studies ideal electron/pion beam:
  - FNAL running is unreliable recently + shut down in FY26
  - As much as possible to be tested in FY25
- What are certain possibilities at JLab? (Hall D?)
  - Involvement of collaborators
- Who could contribute to the testing with established collaboration with one of the beam test facilities