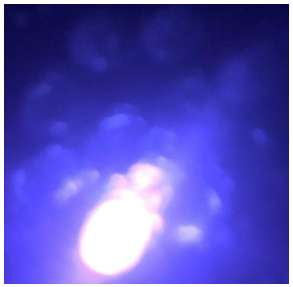
Flasher @ Nevis

Group Meeting | Sept 10, 2021

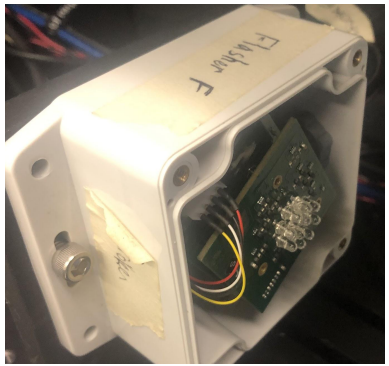
Colin Adams

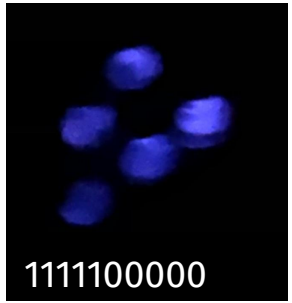
M. Capasso

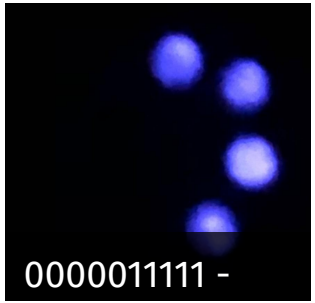
The FrankenFlasher

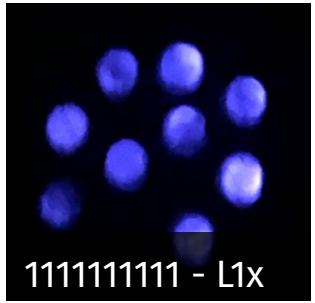


- Two flashers came from Barnard
  - Colloquially: Flasher F (for Failure) and Flasher S (for Site)
    - Flasher F
      - One LED constantly lit while powered - a short (or two) somewhere
    - Flasher S
      - PSoC board won't program the LEDs, stuck on a certain pattern
- Introducing: The FrankenFlasher
  - Flasher F's PSoC board, Flasher S's LED board: Pot set to **1.5 kΩ**



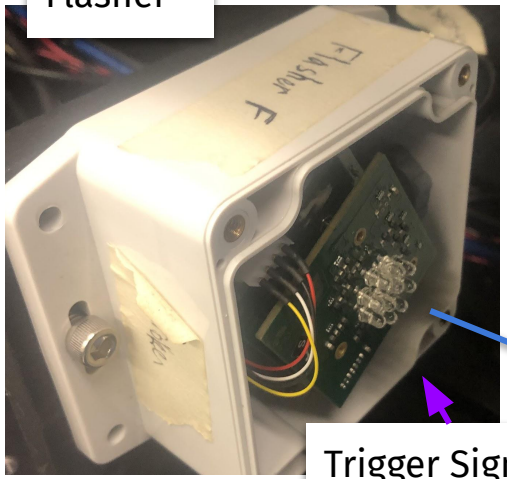






Flasher setup

Flasher

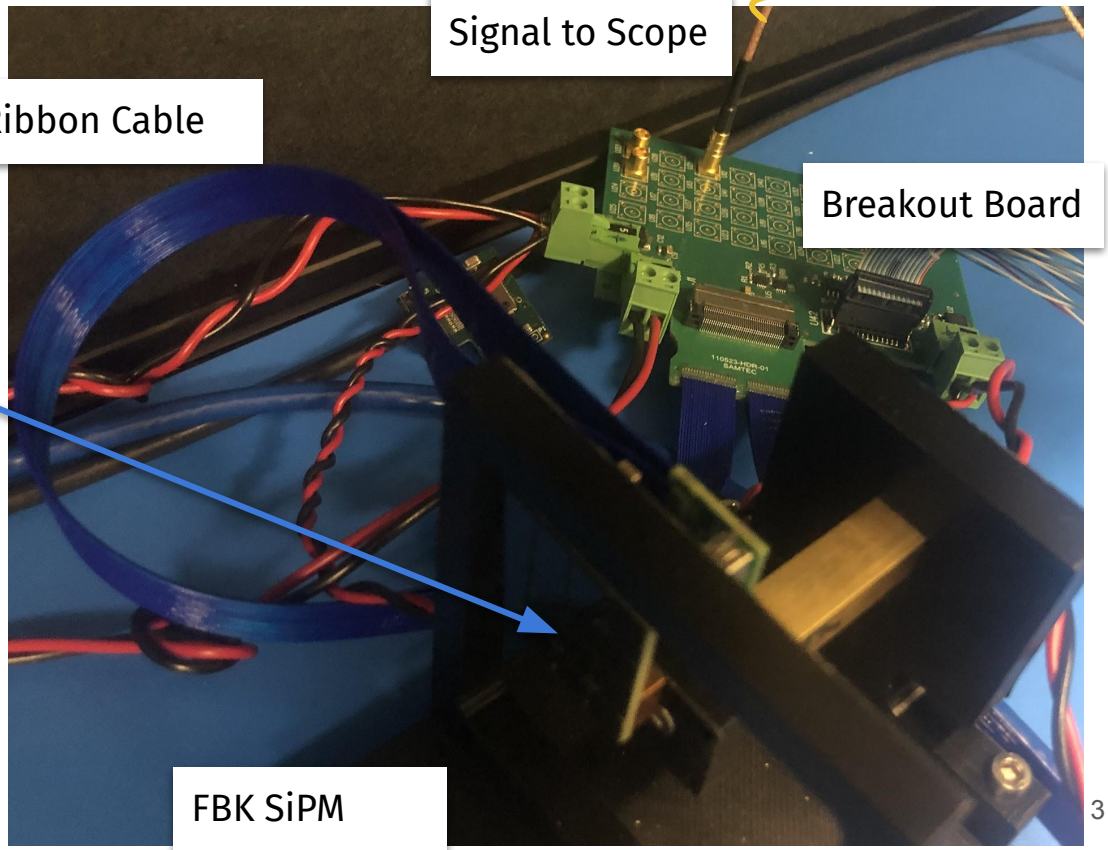


Trigger Signal from Arduino

Signal to Scope

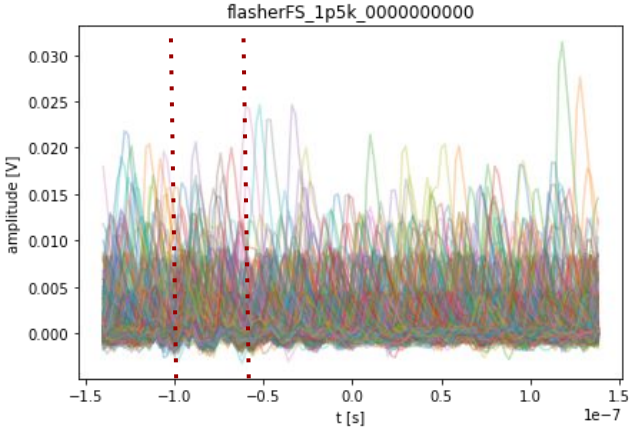
Ribbon Cable

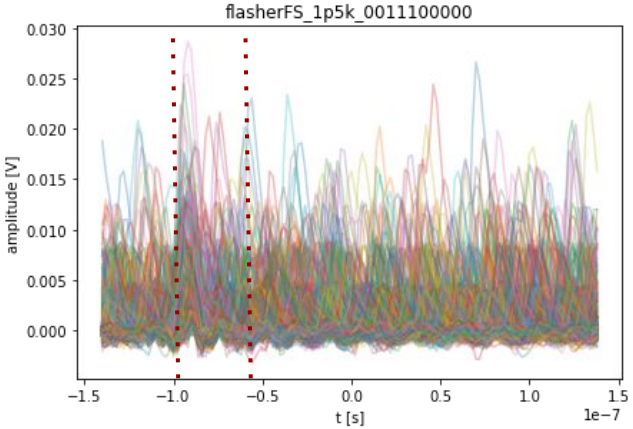
Breakout Board

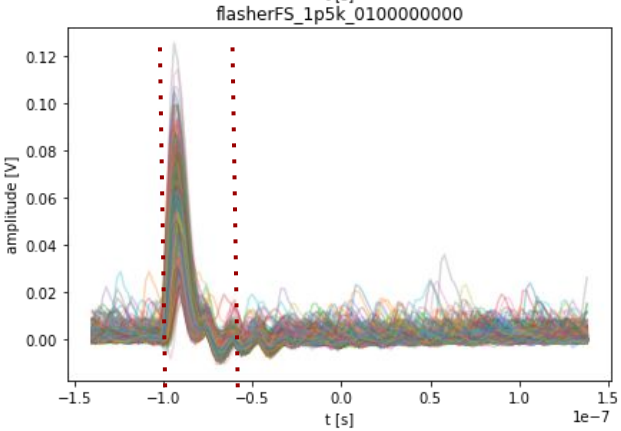


FBK SiPM

Some Quick Results







Remember that P=V^2/R (higher resistance => dimmer light output)

Flasher 0 (top)

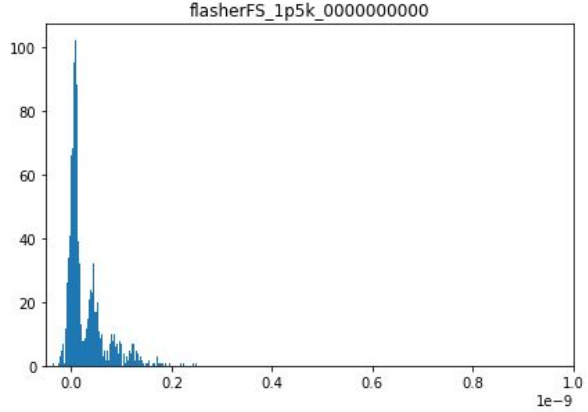
Dim LEDs

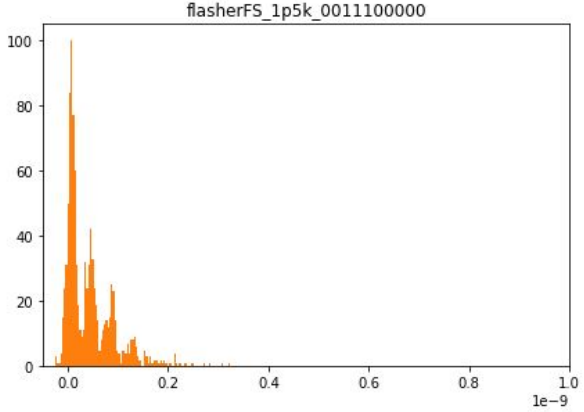
☐ L2 (100 Ω) ☐ L5 (110 Ω) ☐ L7 (120 Ω) ☐ L9 (140 Ω) ☐ L10 (130 Ω)

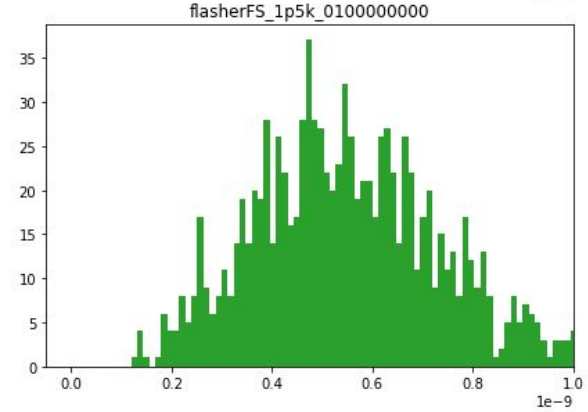
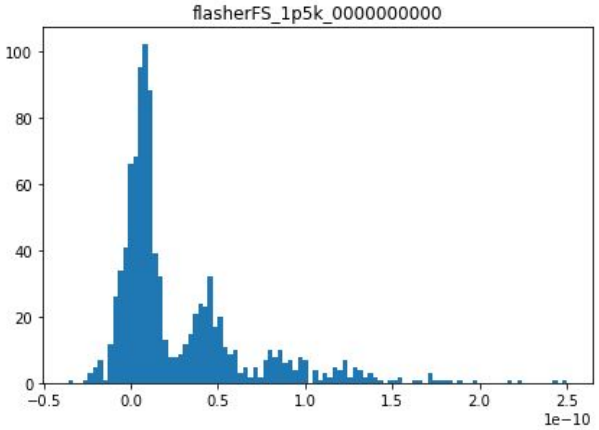
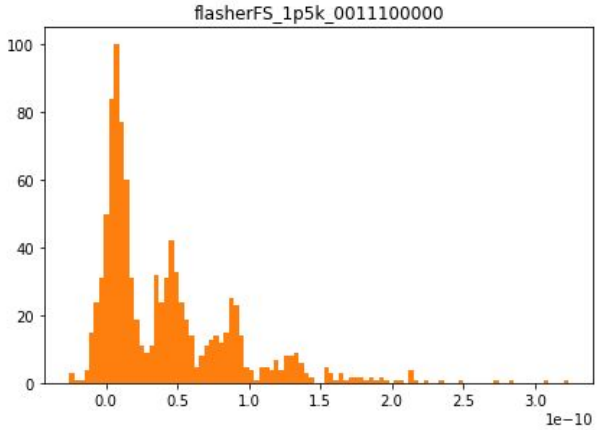
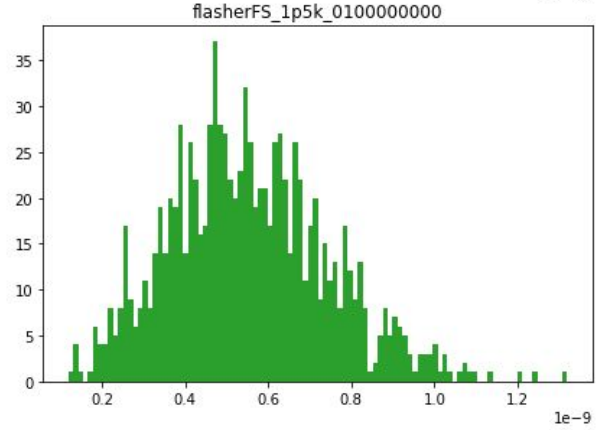
Bright LEDs

☐ L1 (80 Ω) ☐ L3 (80 Ω) ☐ L4 (80 Ω) ☐ L6 (80 Ω) ☐ L8 (80 Ω)

Some Quick Results



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