Status of On-Detector Opto-Links

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Outline

● Status of opto-board design
● Results on iFlame VCSEL optical package
● Results on iFlame PIN optical package
● Summary
Opto-Board Status

- Received nSQP B-layer prototype opto-board on Monday
  - IBL opto-board will be very similar
  - PCB glued to copper plate for heat removal
  - expect to be able to test board by next week
Result on iFlame VCSEL Opto-packs

- Received 6 opto-packs with 4-channel VCSEL and PIN arrays
  - delivery of 12-channel opto-packs expected soon
- Optical power at nominal current is somewhat low
Result on iFlame VCSEL Opto-packs

- Optical power at maximum current is somewhat low

![Graph showing optical power distribution for iFlame VCSELs and Taiwan VCSELs](image-url)

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IBL General Meeting
iFlame/OSU VCSEL Measurements

- Optical power measurements of 1st batch are similar
- OSU measured lower optical power in 2nd batch
  - Need to investigate the discrepancy

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Result on iFlame PIN Opto-packs

- PIN responsivity is somewhat low
iFlame/OSU PIN Measurements

- Fiber diameters used might explain the discrepancy

![Graph showing comparison of iFlame PIN Measurements]
Summary

- new SQP prototype opto-board received
- optical power of iFlame VCSEL opto-packs is somewhat low
- responsivity of iFlame PIN opto-packs is somewhat low