



Photodiode Calibration Setup

Cheuk-Ping Wong



HRPPD QA Setup

- Reference photodiode is used to correct for the fluctuation of the light source
- Each test station across the pfRICH working group will receive a photodiode calibrated at BNL

HRPPD QA setup

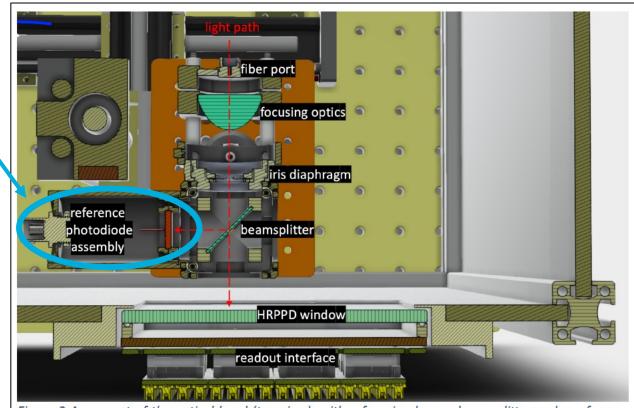


Figure 2 A crosscut of the optical head (top view), with a focusing lens, a beamsplitter and a reference photodiode mounted on a movable table. An HRPPD assembly with a 4x4 array of small 16ch MCX interface boards is seen at the bottom of the picture, mounted on a side wall.



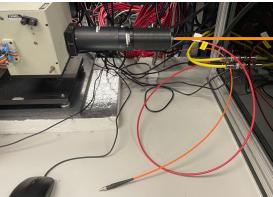
2

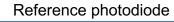
Photodiode Calibration Setup at BNL

On the other side of the bench









photodiode



Quick test (w/ filter)

- Room lighting:
 - ~10nA
- + Laser pointer:
 - <1µA



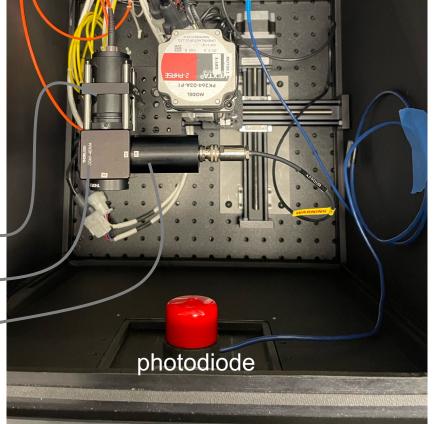
USB hub connected to eic@lappd

Brookhaven⁻

Light source ←

spitter -

Reference photodiode



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Todo List

- ☐ Modify run scripts
 - □Double check the bias voltage. It should be zero for photodiode calibration
 - □Light source beam size =1mm
 - ☐ Modify scan range (xyz) see SurfaceScan.C



4