

TB2020 – SRS noise analysis

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Experimental set-up

- Test beam at DESY with 1 6 GeV electron beam
- ALPIDE telescope 2 arms, 1st arm consists of 2 layers and 2nd arm consists of 3 layers;
- Lumical calorimeter consists of 15 Si sensors with one absorber layer placed in front of each active sensor layer;







Beam direction

R1

R2

0

1

Experimental set-up



Energy scan - 1 to 5 GeV



Run no.	Energy (GeV)
18	4
24	3
35	2
45	1

Data analysis

collaboration

APVs noise – run 18 – energy scan, 4 GeV







channels

Experimental set-up



LumiCal tilted by 2, 4, 6 degrees – 5 GeV

Run no.	Tilt (degree)
87	2
88	2
94	4
103	6



Noise distribution for all channels

APVs noise – run 87 – FCAL tilted - 2 degree

laboration



Noise distribution for all channels

Collaboration

Run no.:
87, 88, 94, 103 – FCAL tilted





Next steps

- More runs will be check, like runs used for energy scan: 174, 188, 193, 198, 203
- Runs took during the LUXE experiment like: 228, 234, 237, 238