

Spark testbeam

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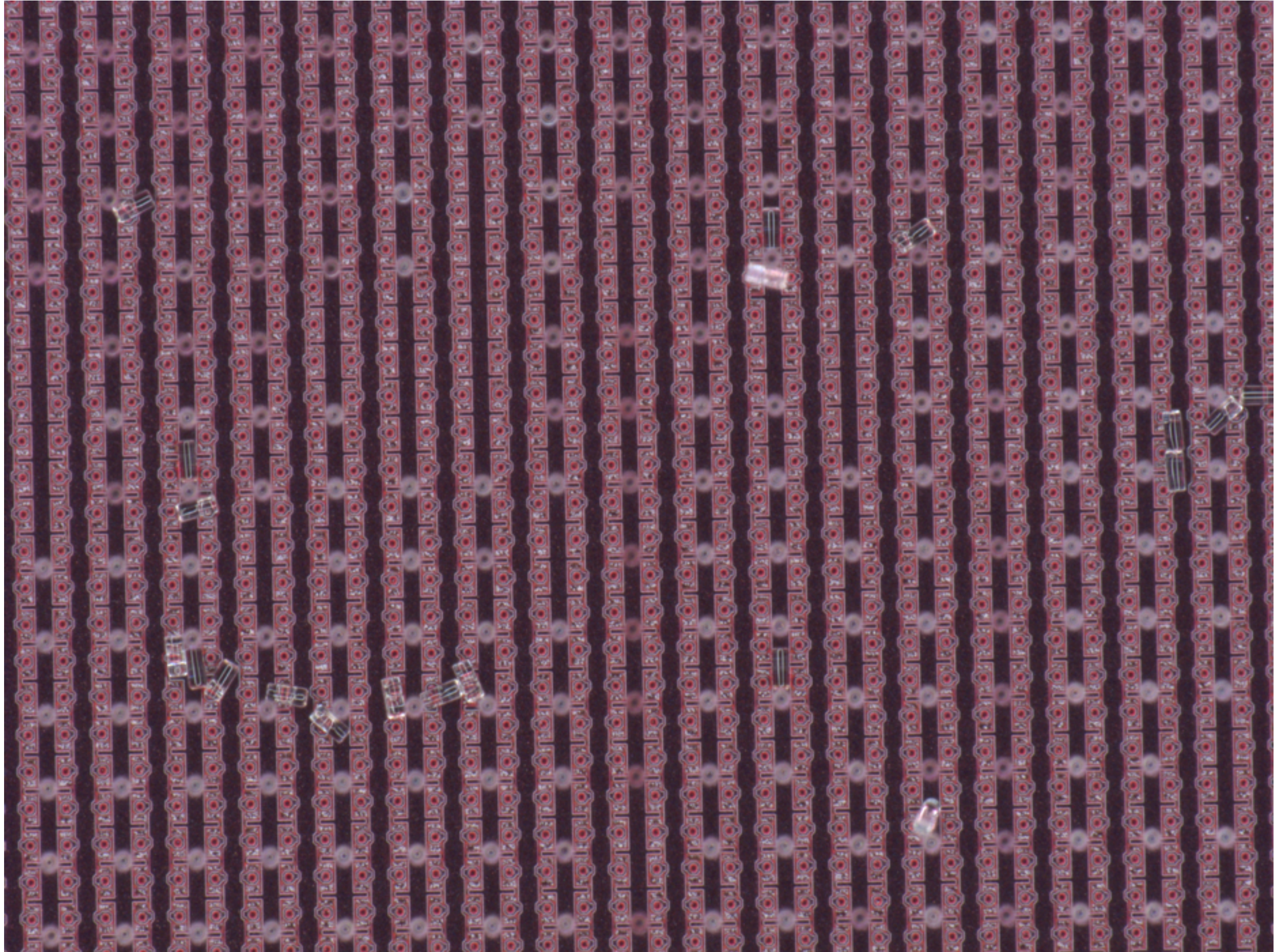
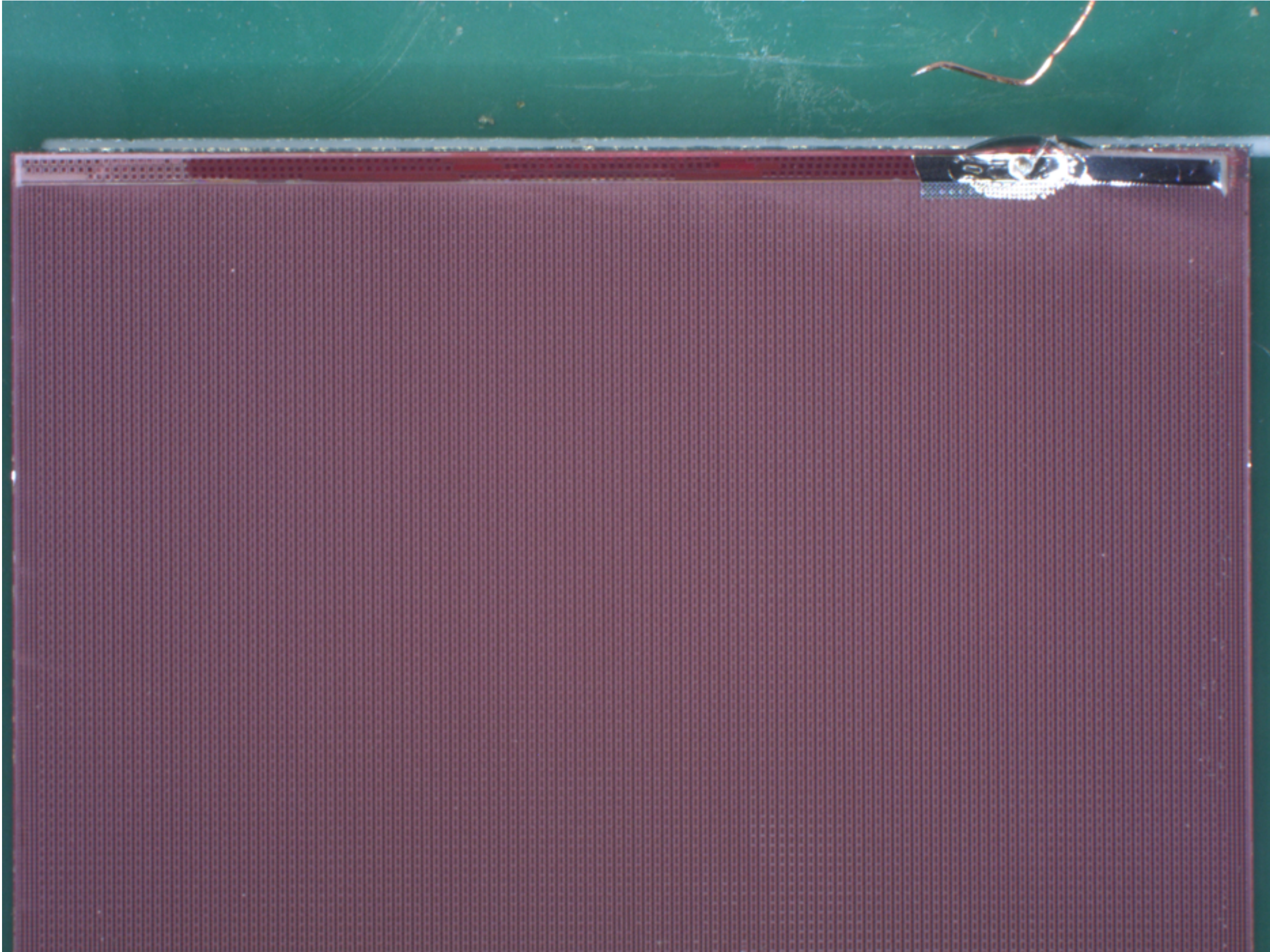
Sps/Cerm

Nov.2014

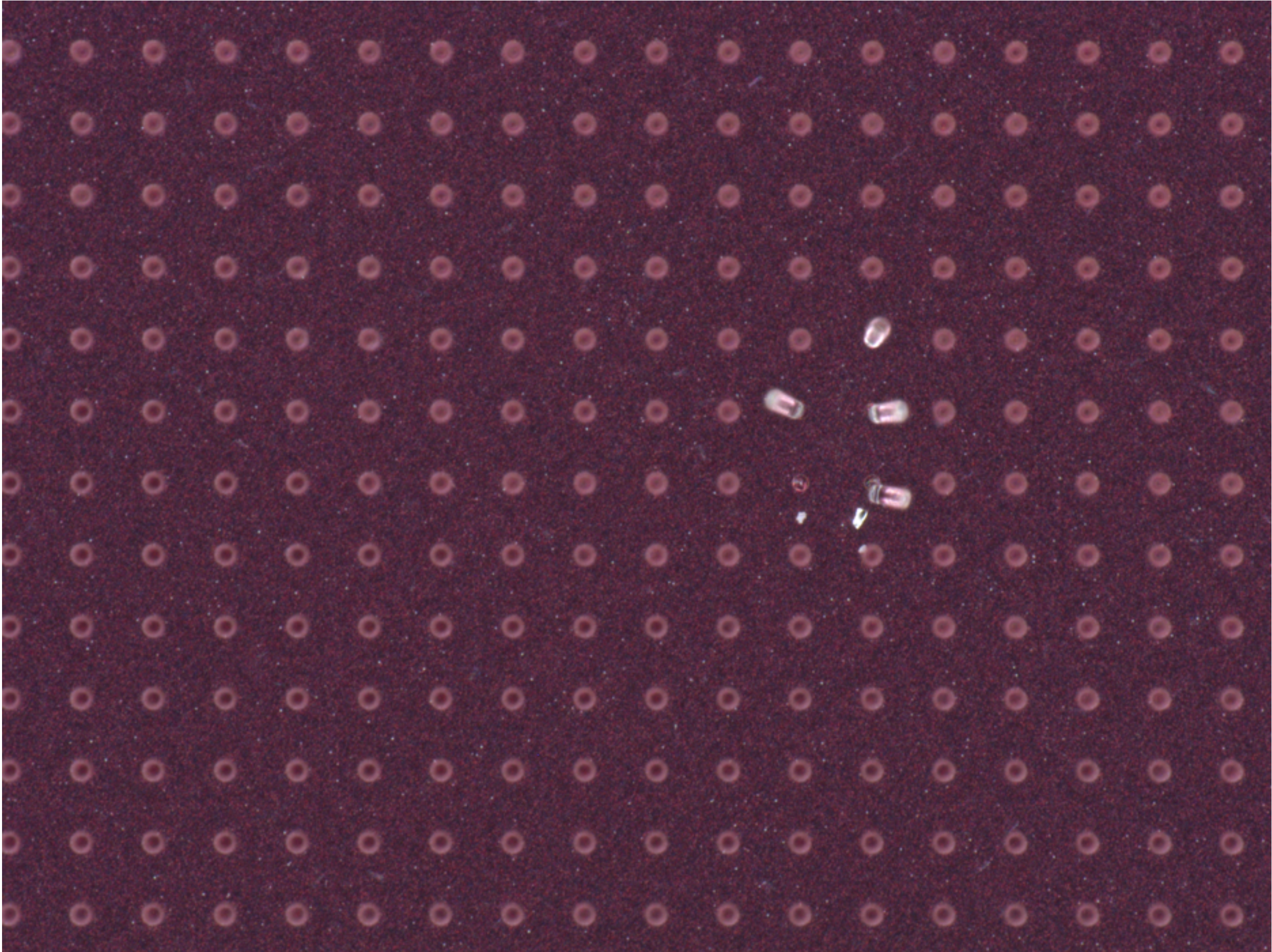
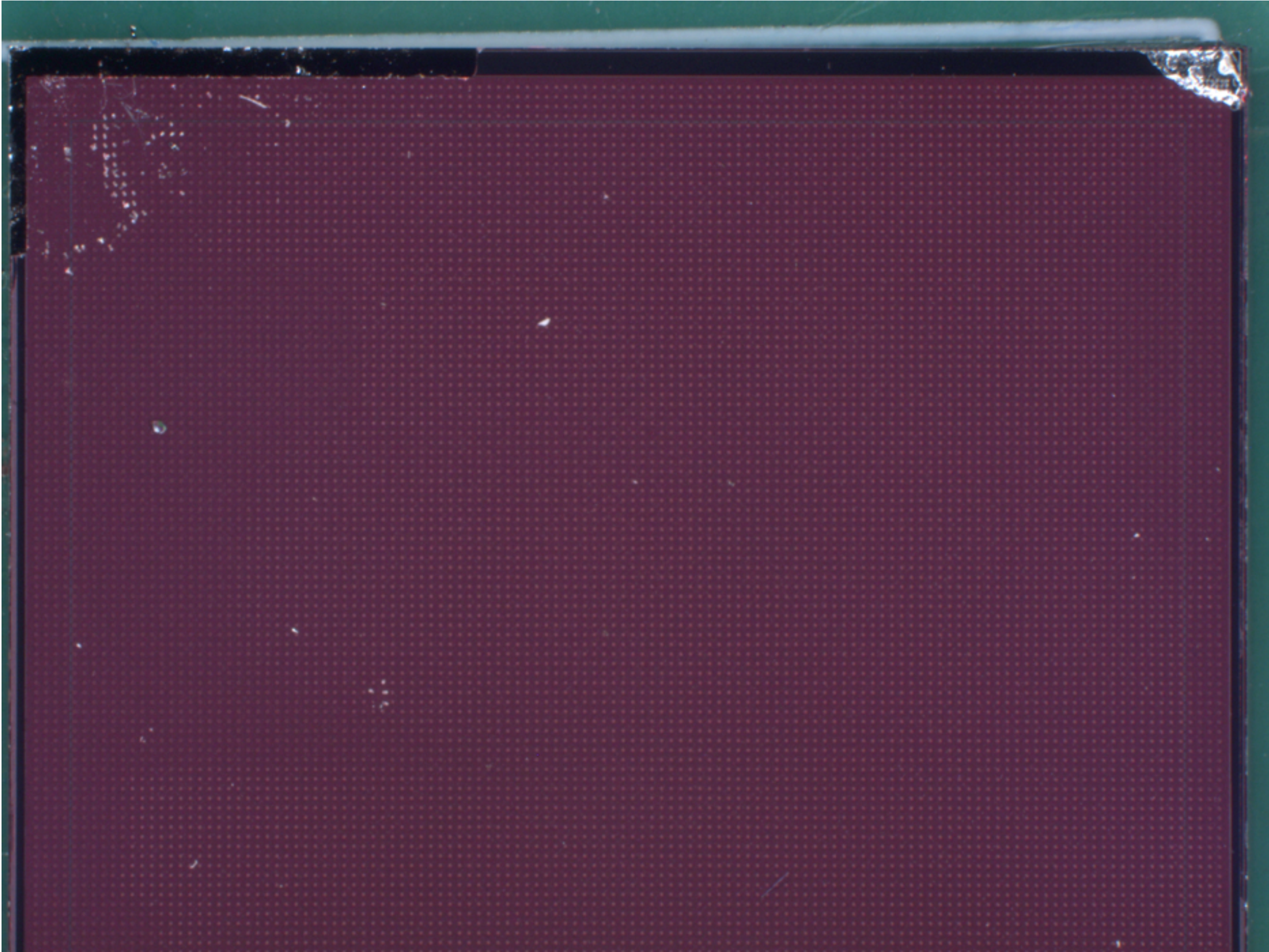
Overview

- 5 days in total
- Hadron beam up to $2 \cdot 10^6$ particles per spill
- 2 “spark setups”
- 8 Ingrid in total (4 Timepi3 + 2 dummies + 2 Timepix)
- Lots of sparks recorded
- CO₂/DME and T2K gas mixtures
- Visual inspection after the testbeam —> No visible damage!!
- Analysis on going

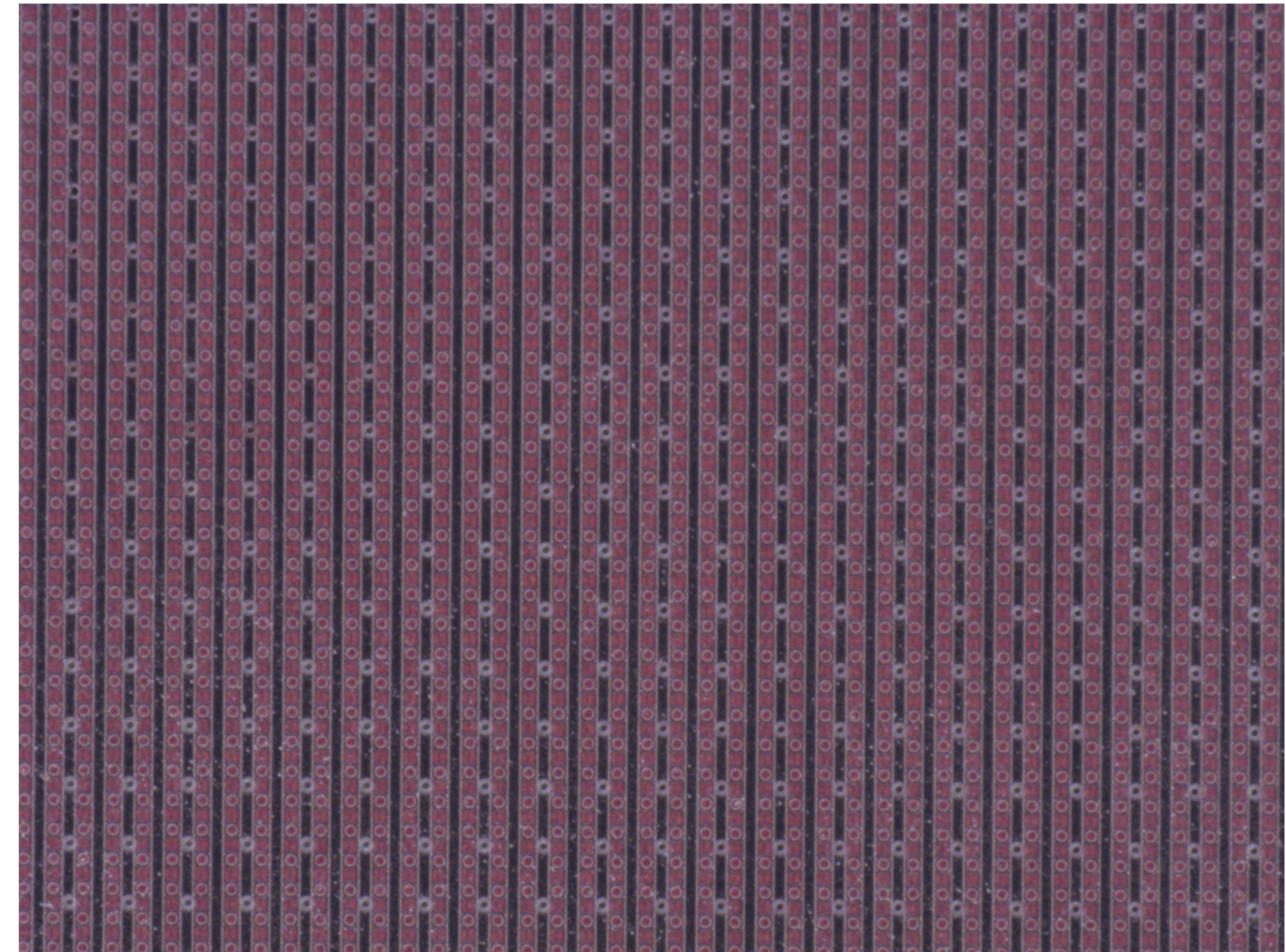
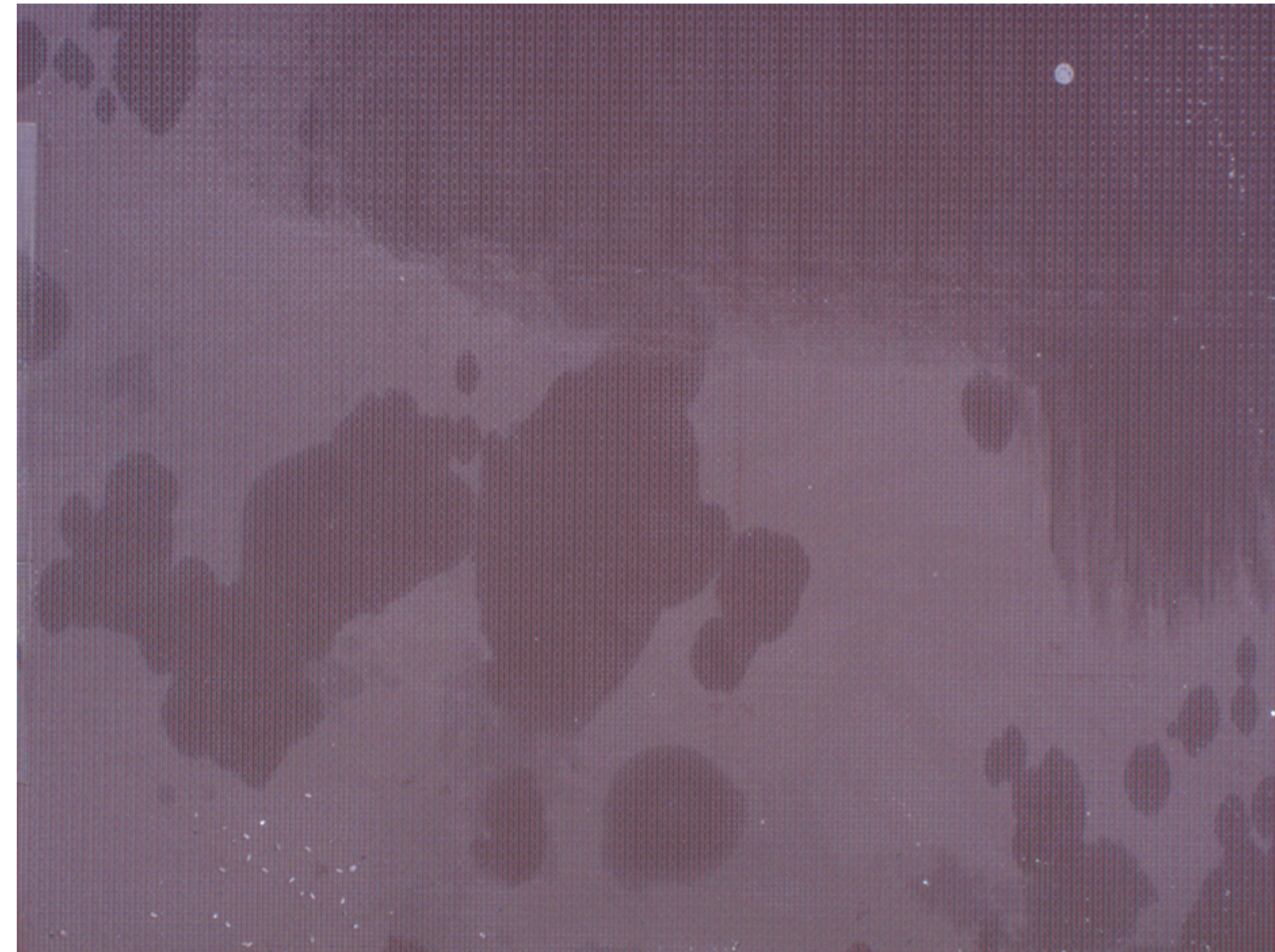
Timepix3



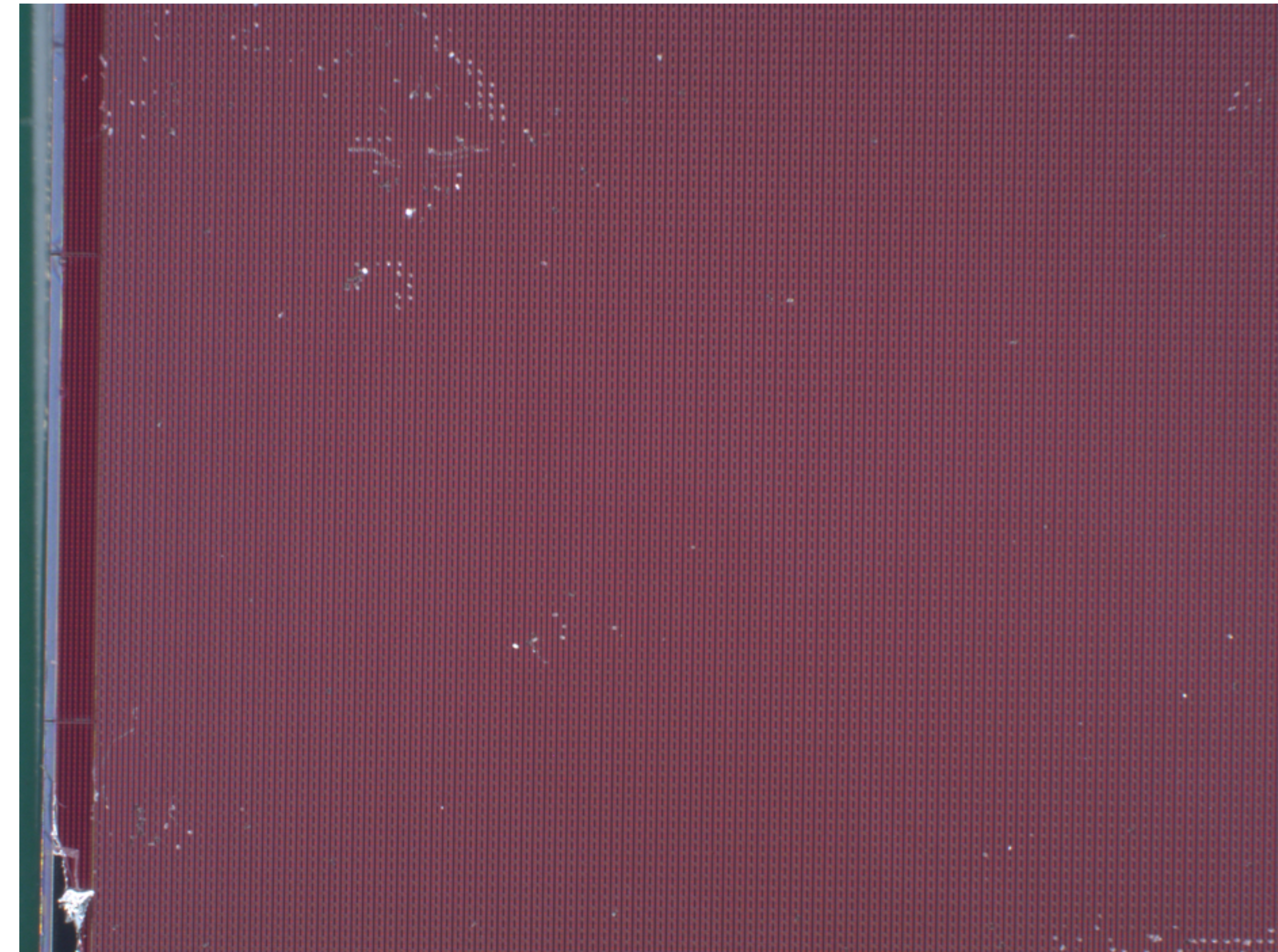
Dummy



Timepix ($8\mu\text{m}$)



Timepix (4 μ m)



Summary

- Successful testbeam!
- Lots of sparks
- No damage observed on all the layers
- Analysis on going

