

Test beam with Pixel modules

2 Modules:

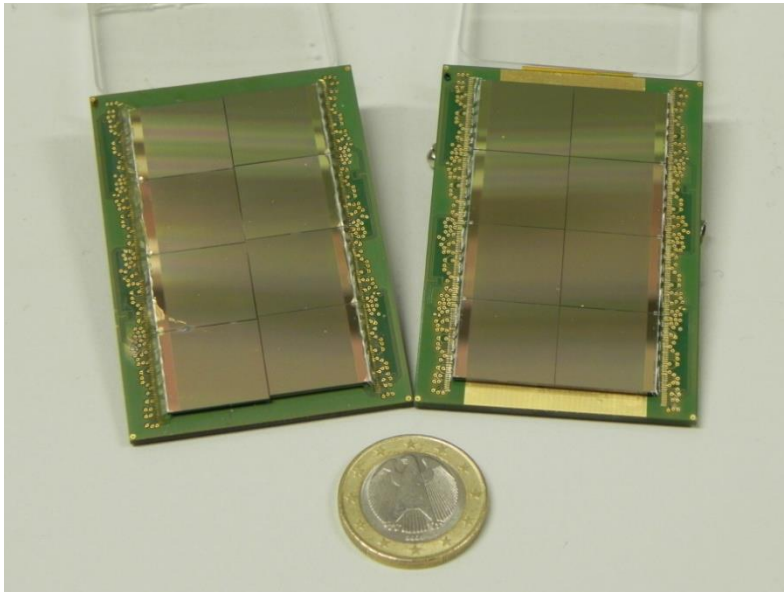
- 3 GEMs with 8 Timepix chip
- 8 InGrids

Readout is SRS based

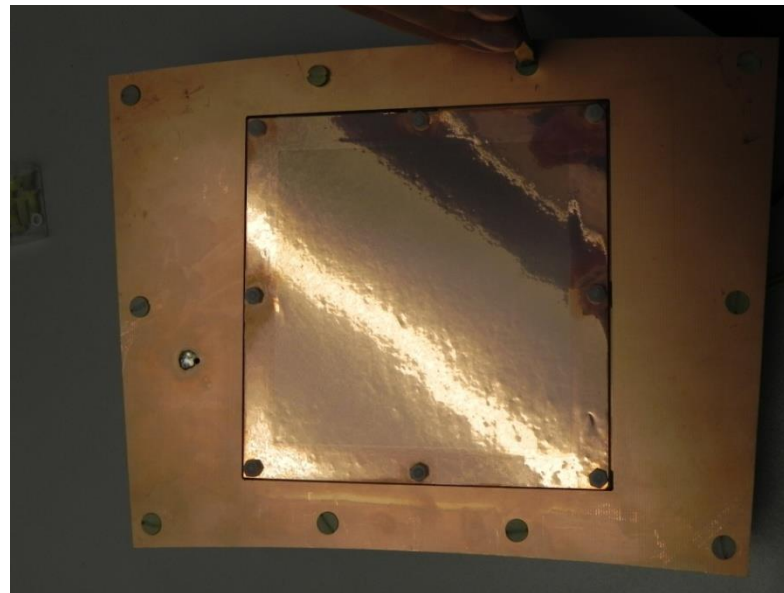
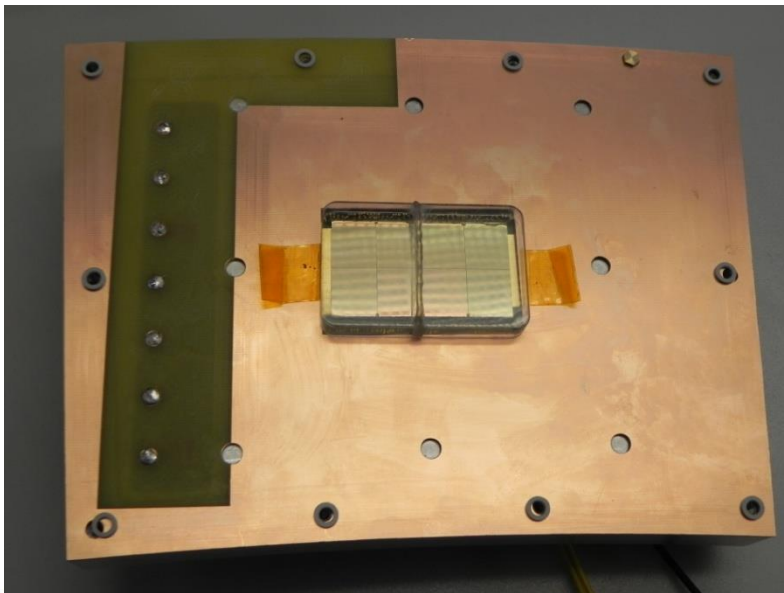
Possibly with water cooling

Production started in January, first parts were delivered in February
But central parts had to be diffusion welded at external workshop.
This took longer than expected and there were some problems. We
got the last part (for the InGrid module) only 3 days before the test beam.

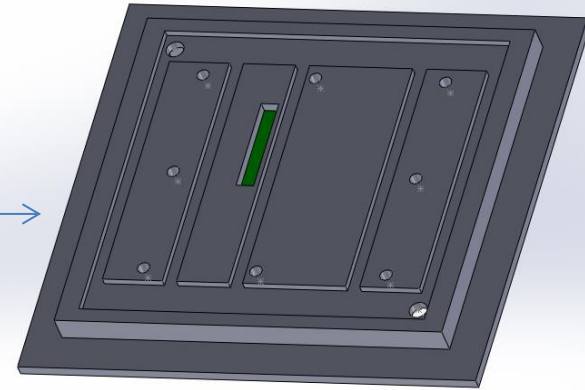
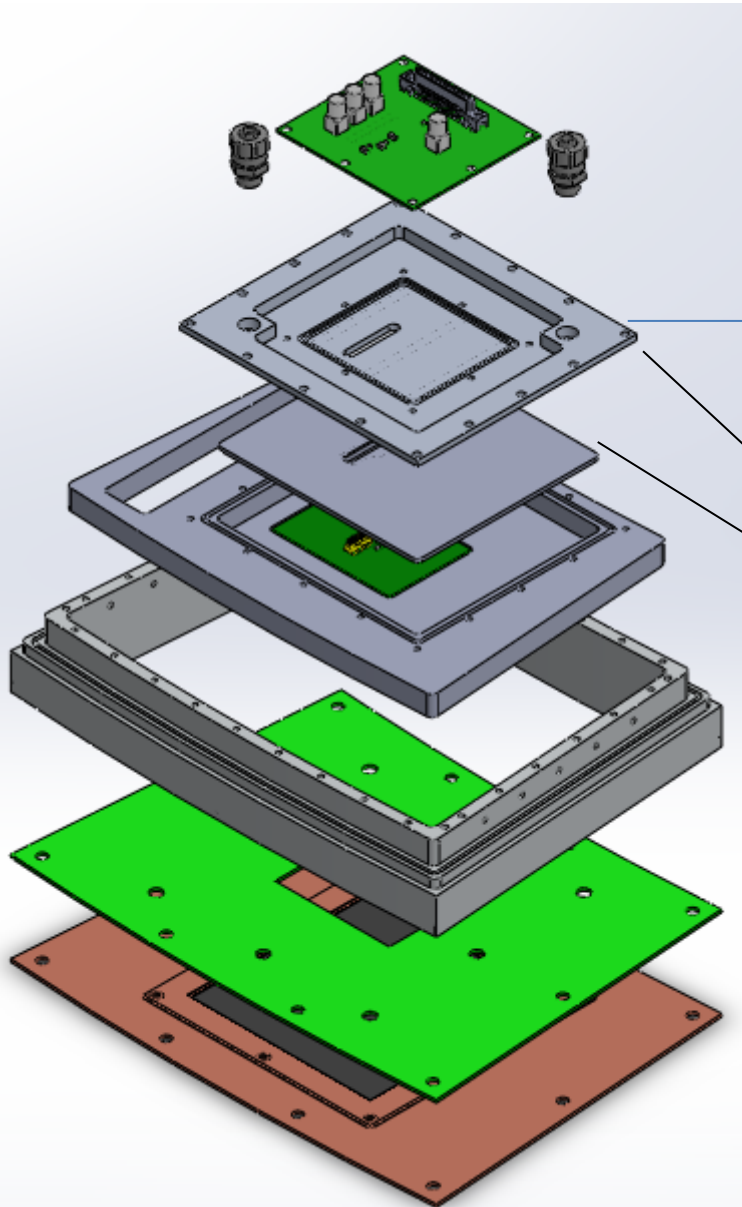
GEM-Module



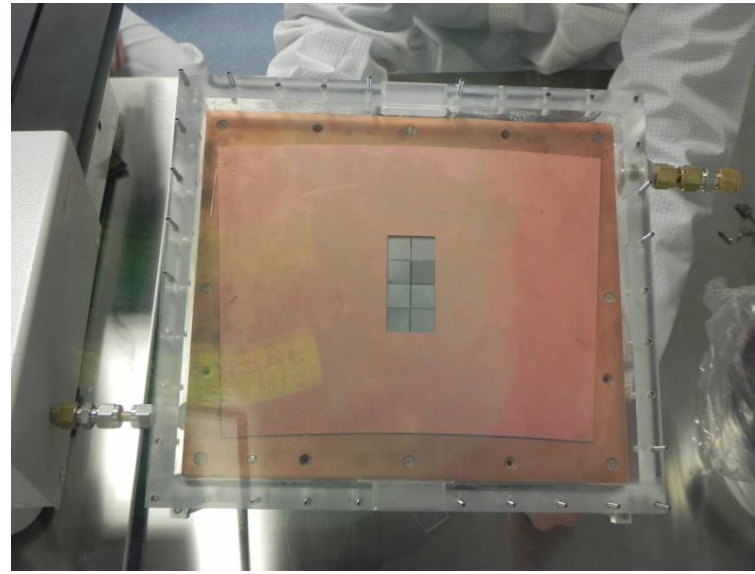
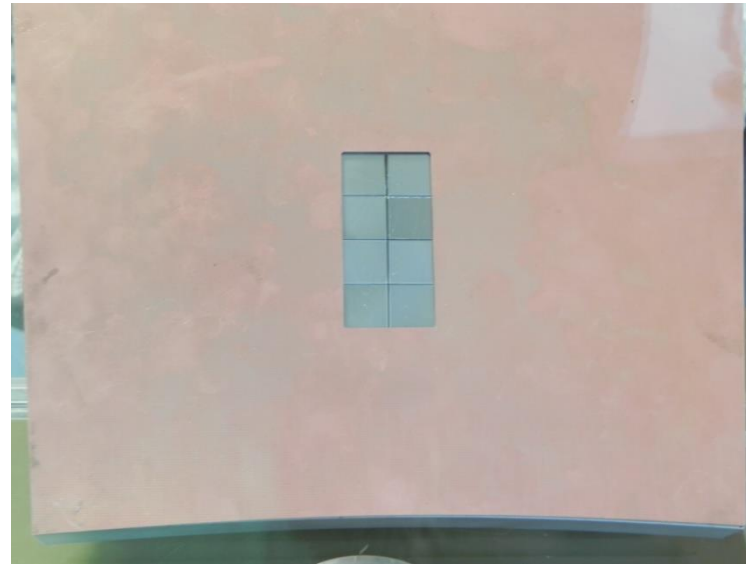
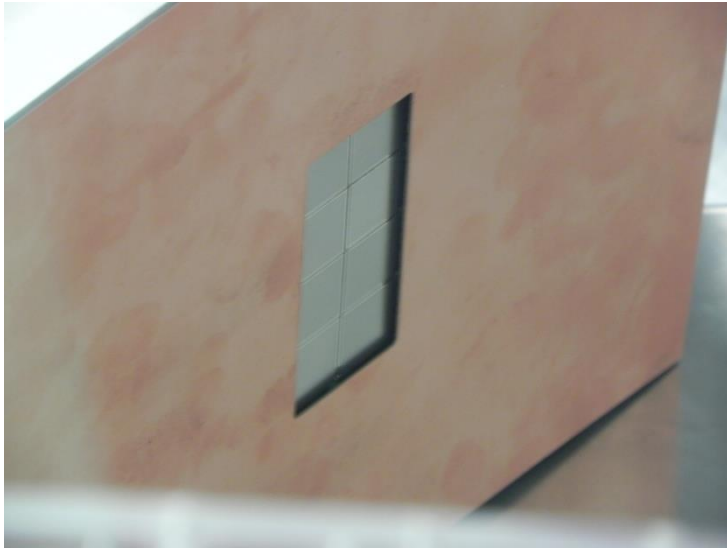
2 Oktoboards with bare Timepix chips
produced and tested
Modules is assembled
GEMs tested (500 V @ N₂ -> 0.7 nA leakage current)
380 V @ Ar:iButane 95:5 stands for ~30 min.



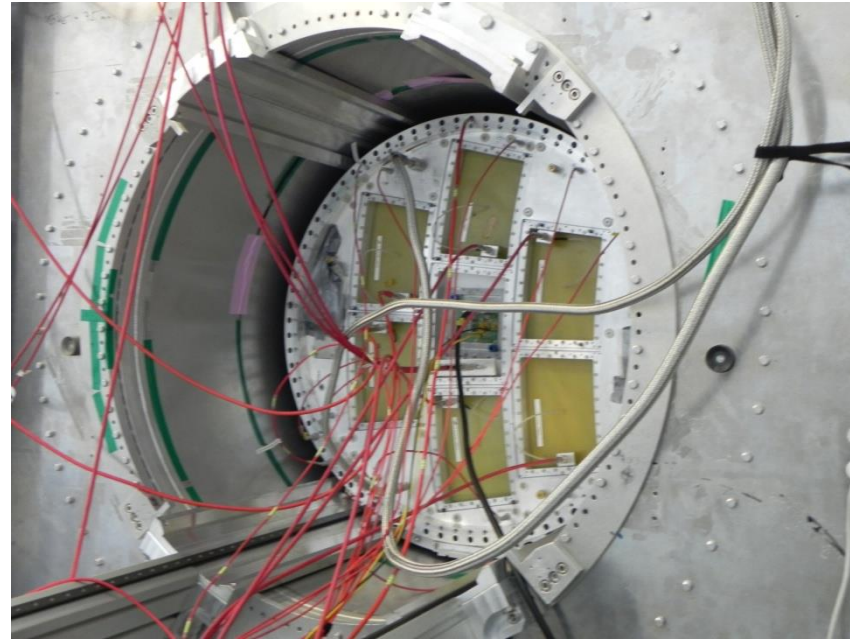
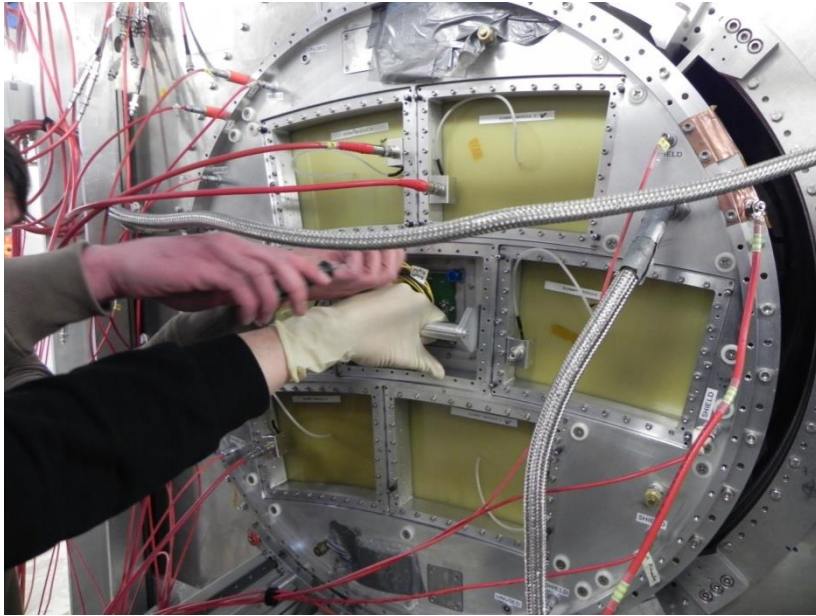
What happens to the InGrid Module



Assembly of InGrid Module



Inserting the module in LP



Everything went well, so we decided to leave the InGrid module in and test it first.

Schedules sofar



- 21.4. Inserted InGrid module in LP, starting to flash gas (T2K)
- 22.4. everything set up, started to learn how to handle beam/PCMAG
-> killed power supply of readout electronics (too close to magnet)
- 23.4. replaced power supply, saw first tracks
- 24.4. equalizing the chips (problems with chip 7 and 8)
- 25.4. finishing euqalization, adjusting beam,
placing SRS at better position
- 26.4. started data taking (voltage scan)

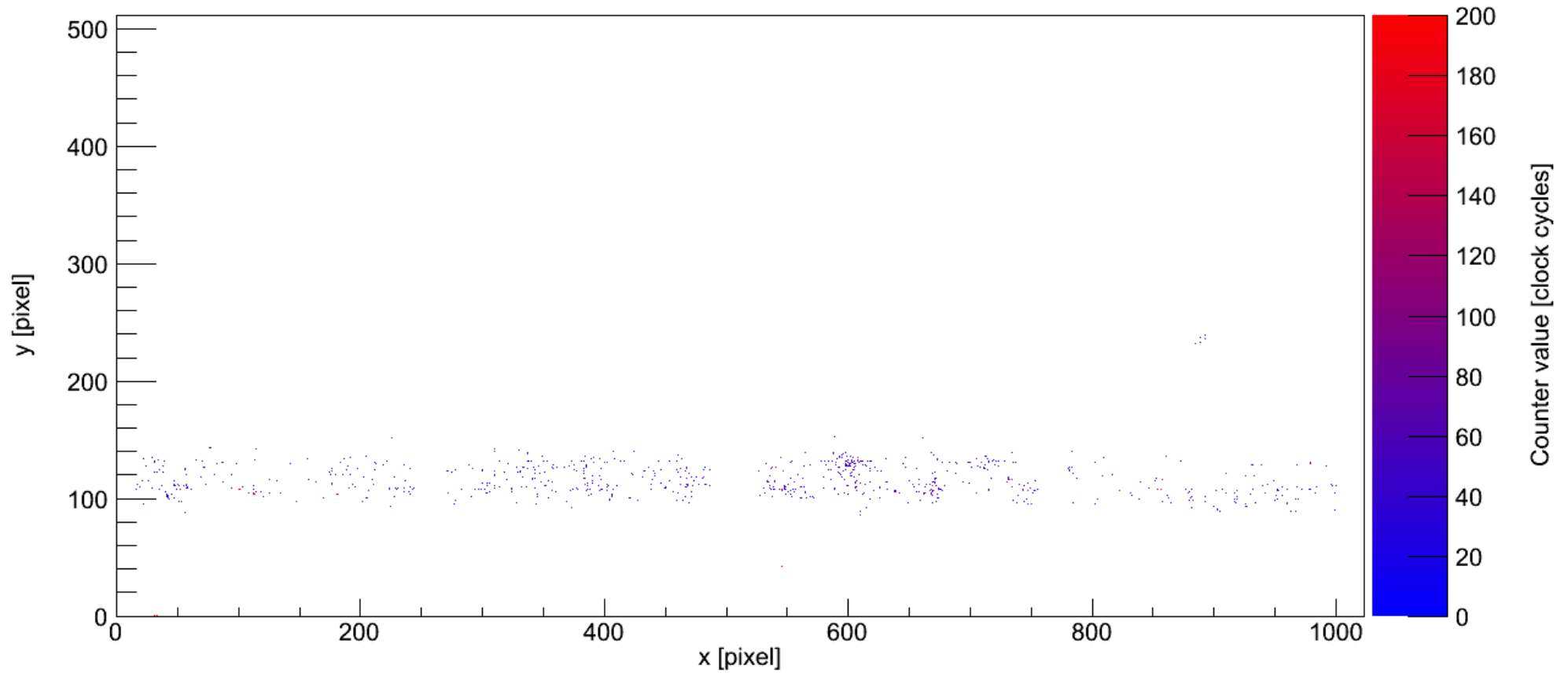
Position of SRS



Events



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**Thanks to everyone who was
helping!**