

Status WP5

Irradiations

INSTITUT FÜR EXPERIMENTELLE KERNPHYSIK

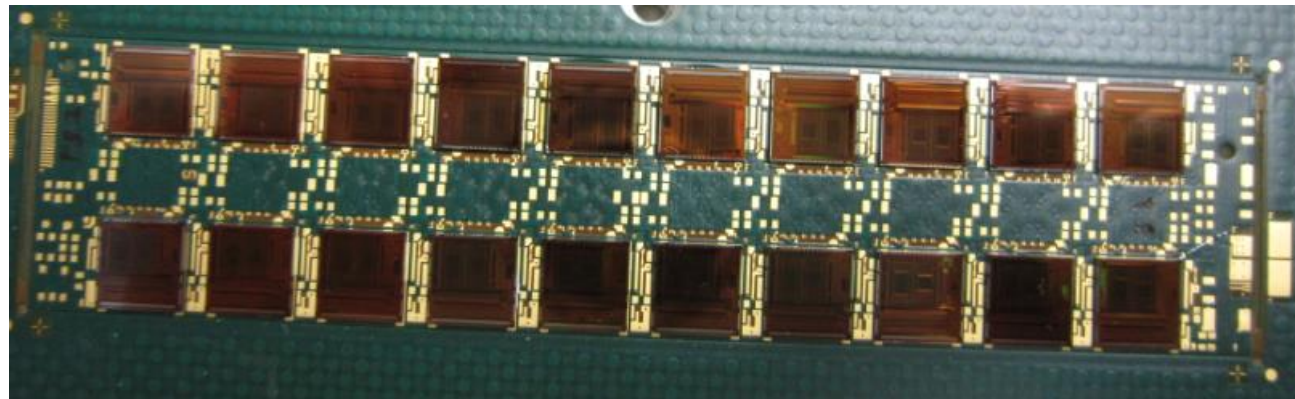
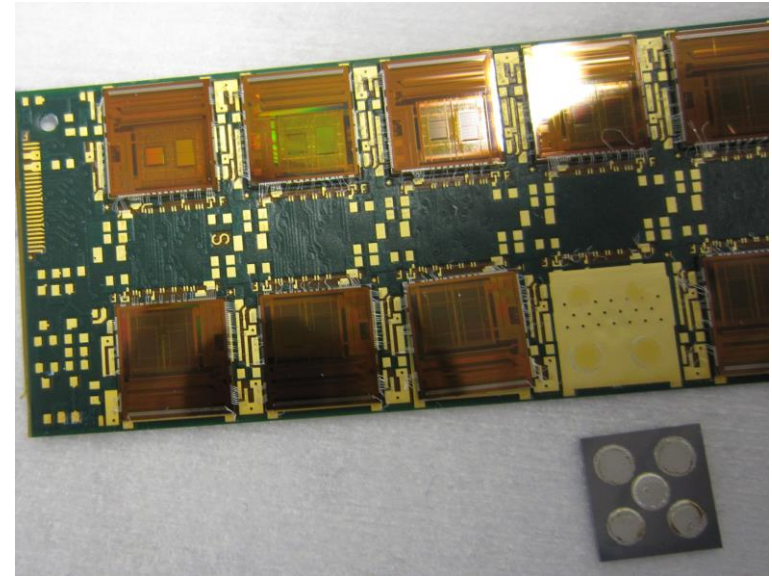


Materials for DC-DC Powering Phase I

- Contact: Katja Klein, RWTH Aachen
- Abschirmung ohne Paste 3x, 5 Spulenkörper HK, 5 Spulenkörper GT, 2 x Stecker für Konverter vom DCDC Bus, 2x Kabel-Stecker M80 ohne Kontakte, 2x Leiterplattenstecker M80, 2x Molex-Stecker für CCU Ring, 2x Stecker für DOH vom CCU – Ring, Radox-Leitung, PC Kabel-Tülle, Sicherungen Schurter 0603-1.5A, Sicherungen Schurter 0603-1.5A auf Platinen, Sicherungen Schurter 3410.0033.01, Stecker vom HV- Bus
- Fluence aim: $5e14n_{eq}/cm^2$
- Some parts done (Time: 0:10), usefulness of irradiation of plug questioned
- Next irradiation: fuses on PCB (need mask for copper area to prevent unnecessary activation), expected time ~30min

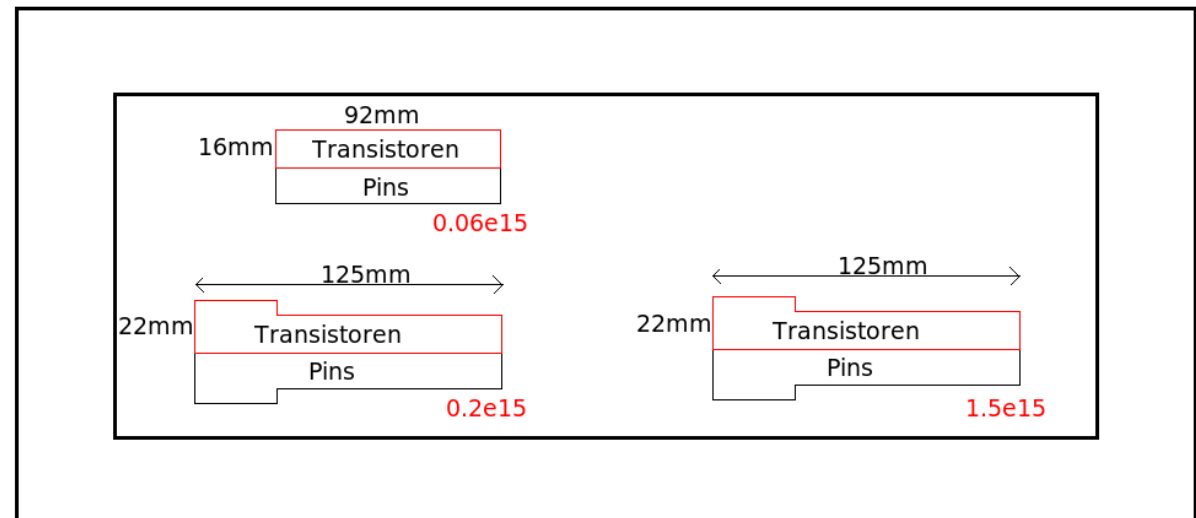
Glue tests

- Contact: Luise Poley, HU Berlin
- PCBs with glued chips (silver epoxy and seven other glues)
- PE plate with glue dots
- Fluence aim: $2e15 \text{ neq/cm}^2$
- Time: 2:40
- Completed



Irradiation of Transistors for ATLAS Tracker

- Contact: Martin Bessner, DESY
- Transistors for HV switching of silicon strip sensors
- Masks to protect pins done; expect samples soon
- Transistors need to be irradiated from both sides to get more uniform irradiation
- Transistors need to be powered during irradiation
- Expected time: ~2x1h



Irradiations at Los Alamos

- Contact: Alexandra Junkes, UHH
- Request to get funds for travel
 - No more details on purpose and costs give → need a short application

Comments

- There are funds left for irradiations!
- We need a short written application with
 - contact name, affiliation and address
 - purpose of the irradiation test
 - description of the material (quantity, size, composition)
 - requested fluences or expected costs at facilities other than KIT
- Projects should be limited to about 4 hours of irradiation time to allow for several different projects
 - Funds can cover a total irradiation time at KIT of about 40h