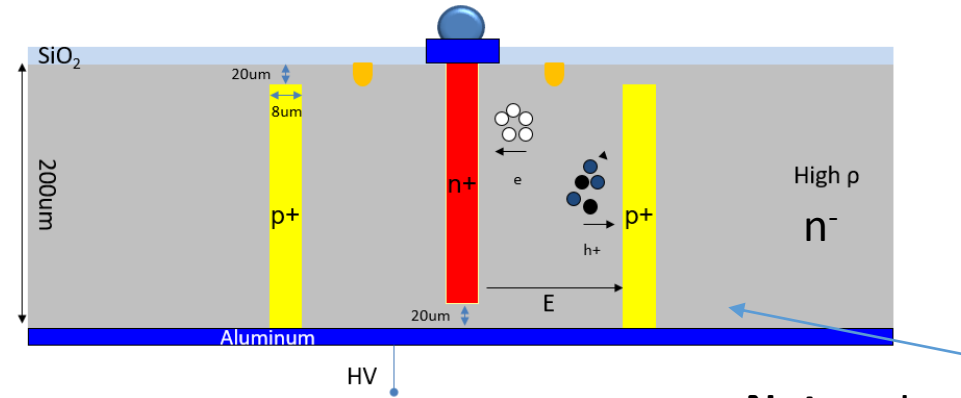
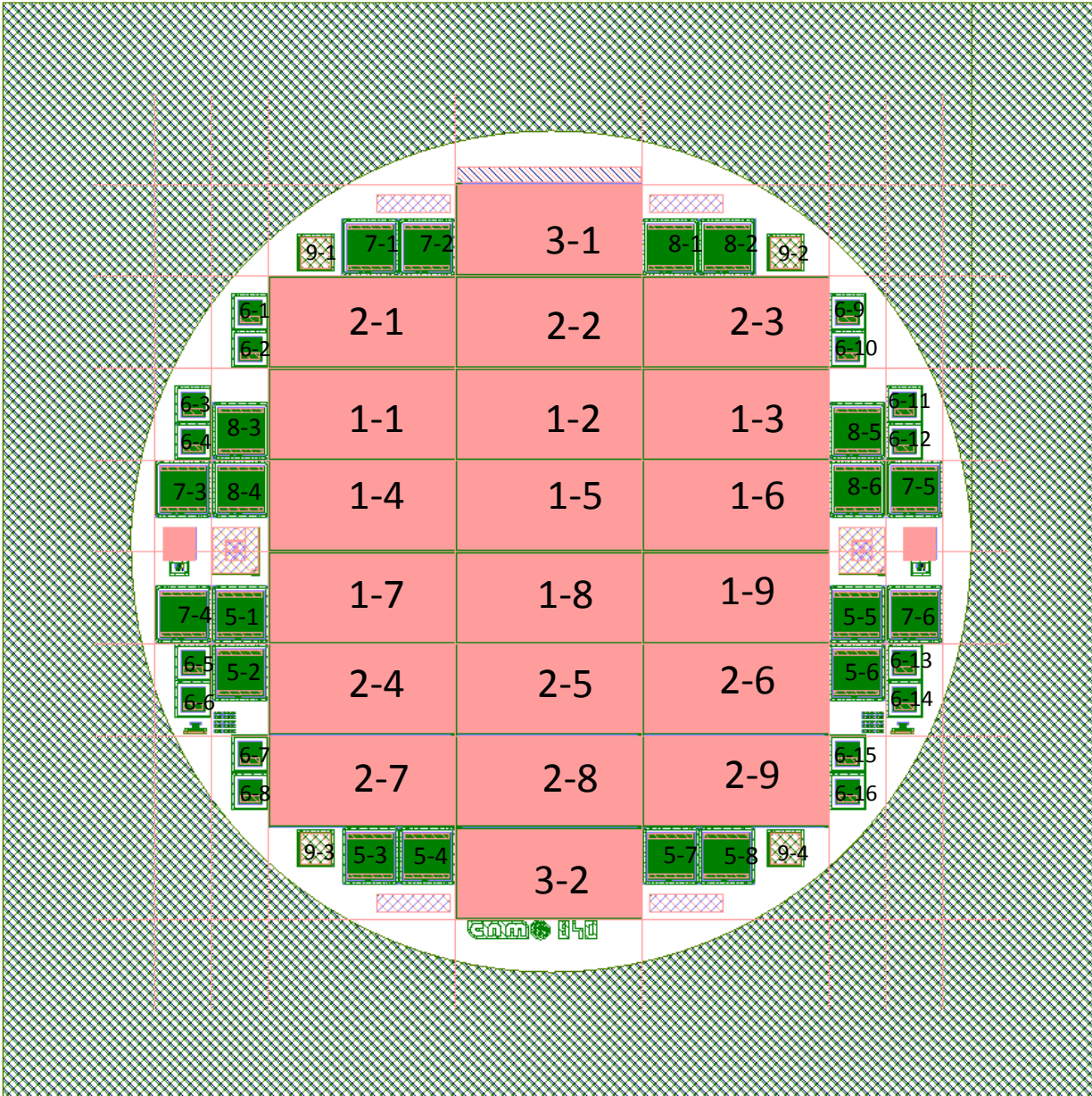


Run 10339

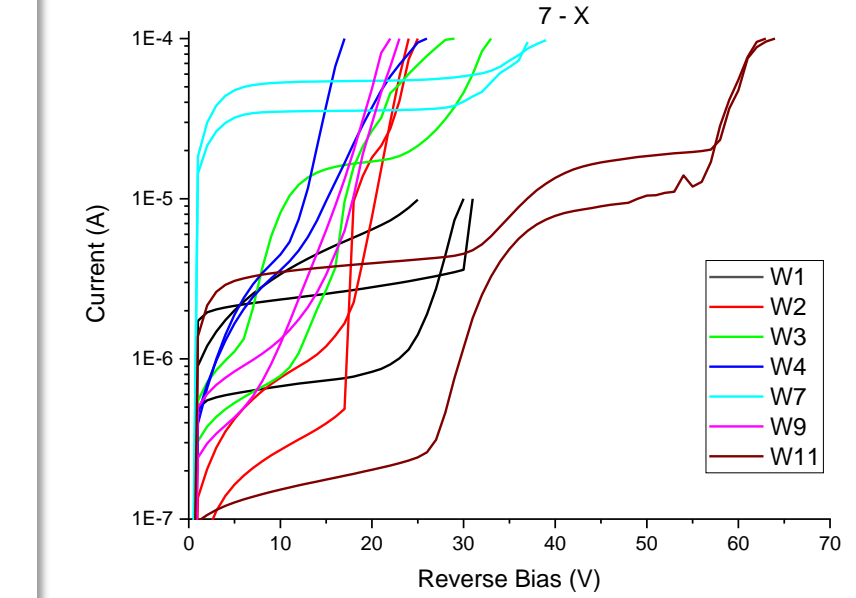
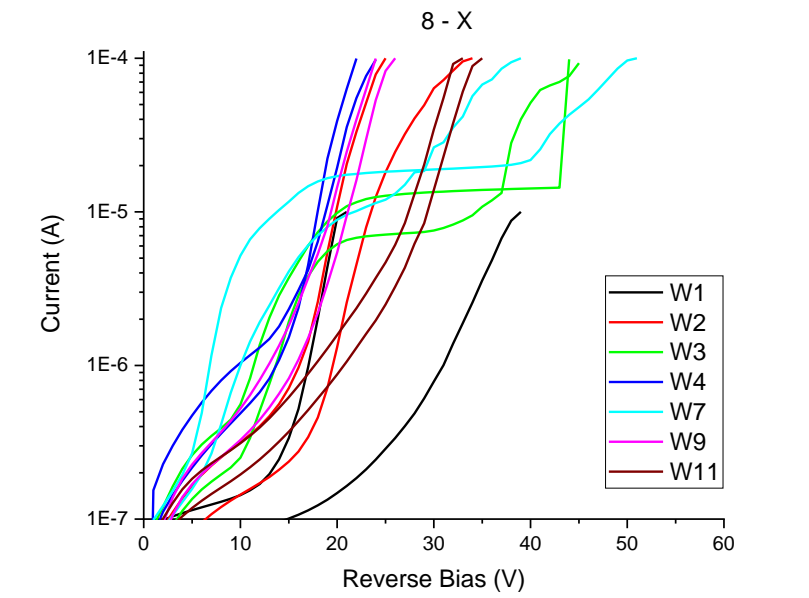
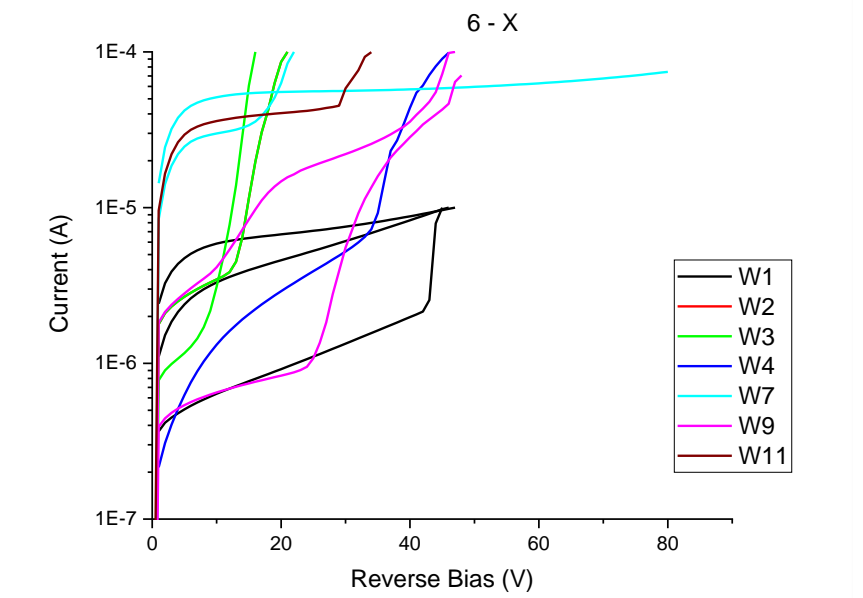
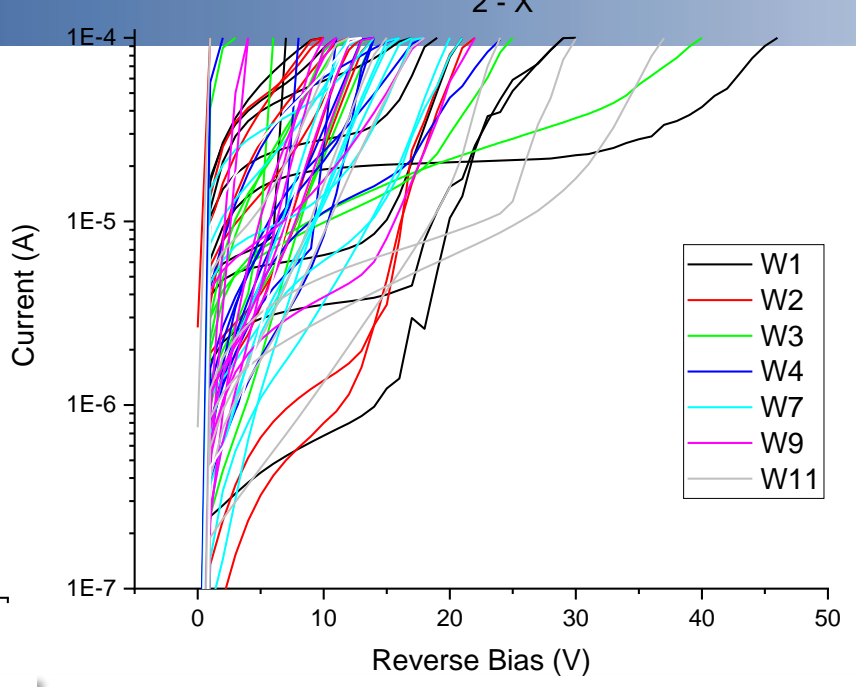
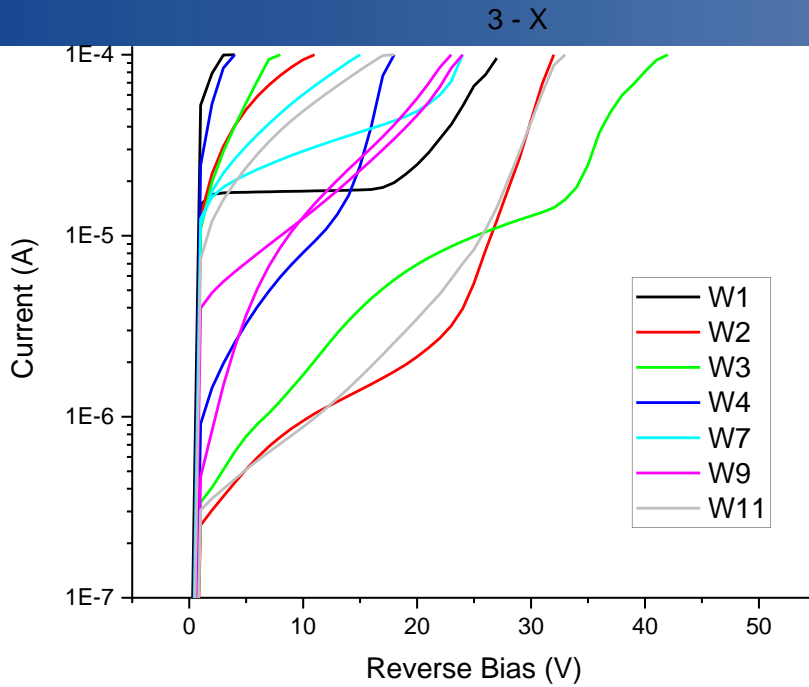
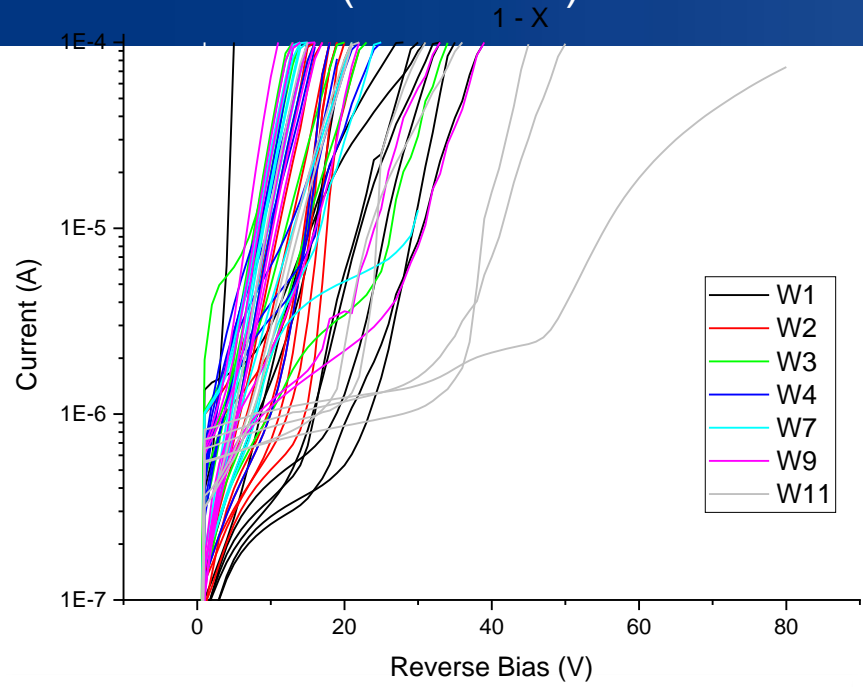
3D double side technology: n - on - n, 200um thick wafers



Note: Junction on this side, the detector starts to deplete from the back side. **High current expected** before the inversion of the substrate.

- 9 RD53 50x50um² (1-x)
- 9 RD53 25x100um² 2E (2-x)
- 2 RD53 25x100um² 1E (3-x)
- 9 Diodes 50x50um² (5-x)
- 16 Diodes (small) 50x50um² (6-x)
- 6 Diodes 25x50um (7-x)
- 6 Diodes 25x100um² (8-x)
- 4 MOS (9-x)

- 7 Wafers
- 1 wafer has been diced up



Upcoming work

- Measurements with TCT: Charge collection efficiency and timing
- Send diodes for irradiation:
 - 1 RD53A sensor for each geometry with temporary metal, 4 small diodes of each geometry, small (1pixel) test structures
 - 6 different fluences (10^{14}cm^{-2} ; 10^{15}cm^{-2} ; $5 \cdot 10^{15}\text{cm}^{-2}$; 10^{16}cm^{-2} ; $5 \cdot 10^{16}\text{cm}^{-2}$; 10^{17}cm^{-2})
- Electrical characterization after irradiation.
- Better performance after irradiation is expected because of substrate inversion.

Backup

