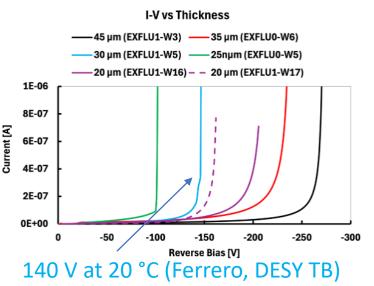
## Timing with thin LGADs (ExFlu INFN ) Torino

- Details on samples: TREDI 2025 Ferrero
  - We received a pile of them (estimate 50+)
- Sr90 timing done with one sample
  - ExFlu1 W5 pad 1.3 Sr 4-D (30 μm thick)
  - Breakdown at 65 V at -28°C
    - Seems too early, expect smaller current & VBD > 80 V
    - No C-V/I-V done beforehand
  - Single pad 1.3 mm, GR bonded

| Production | Wafer | Thickness<br>nominal<br>[μm] | Gain<br>implant<br>Diffusion | p⁺ Dose | C Dose | Sensor<br>capacitance<br>[pF] |
|------------|-------|------------------------------|------------------------------|---------|--------|-------------------------------|
| EXFLU1     | W3    | 45                           | CBL                          | 1.14    | 1      | 3.9                           |
| EXFLU0     | W6    | 35                           | CHBL                         | 0.94    | 1      | 5                             |
| EXFLU1     | W5    | 30                           | CBL                          | 1.12    | 1      | 2.2                           |
| EXFLU0     | W5    | 25                           | CHBL                         | 0.94    | 1      | 4.1                           |
| EXFLU1     | W16   | 20                           | CHBL                         | 0.80    | 1      | 3.3                           |
| EXFLU1     | W17   | 20                           | CBL                          | 0.96    | 1      | 3.3                           |

## **Current-voltage characteristics**



## Sr90 Results

