

● Deep depleted APD read out through capacitatively coupled mesh

- Silicon is biased, image charge read out
- Gain layer and drift region overlap
- Mesh serves to stabilize E-field shape over large area for good performance over whole device
- Operates at high gain / high voltage

● 20 ps resolution achieved on 8x8mm² non-irradiated device

● No conclusive results yet for irradiated devices

