

Status update 30. Oct. 2025

Done:

- Implement DMM (analog monitoring) for ITS3 -> merged
- 1st round review of TWEPP proceedings (Stefano)

Ongoing:

- SW:
 - Join MOSAIX monitoring API config
~3 weeks
- Wafer probing/NKF7:
 - Measurements with Stefano: ideas to try, need to fix Marcel's pcb (sma conn)
 - Get feeling for system
- Idea for NKF7-independent probecard testing (next slide)
- Review of Jelenas proceedings & DOE

Q's:

- SVT 'workfest' in Oxford -> join?

SVT workfest Oxford December 15-19



- I have started Indico site <https://indico.bnl.gov/event/30334/>
 - Assume start on Monday, Dec 15th, 1pm to Friday Dec 19th, 1pm
- The meeting will be at the Physics Department, Denys Wilkinson building
- Catering
 - Warm lunches in the cafeteria in the building, coffee mornings and afternoons (£100 for 5 days → meeting fee)
 - We are organising a 3-course meeting dinner at St. Giles House for £80 per person on Wednesday evening
- Accommodation
 - We have reserved 15 en-suite rooms at St. Edmund's Hall at the cost of £80+VAT per night, breakfast for £11+VAT (VAT is 20%)
 - Please get in touch directly with the College at SEH Conferences (conferences@seh.ox.ac.uk) and quote Ref 17117 - ePIC SVT WorkFest accommodation
 - Please book soon, as we only have a limited number of reserved rooms. Currently there is still availability beyond this, but this might go soon

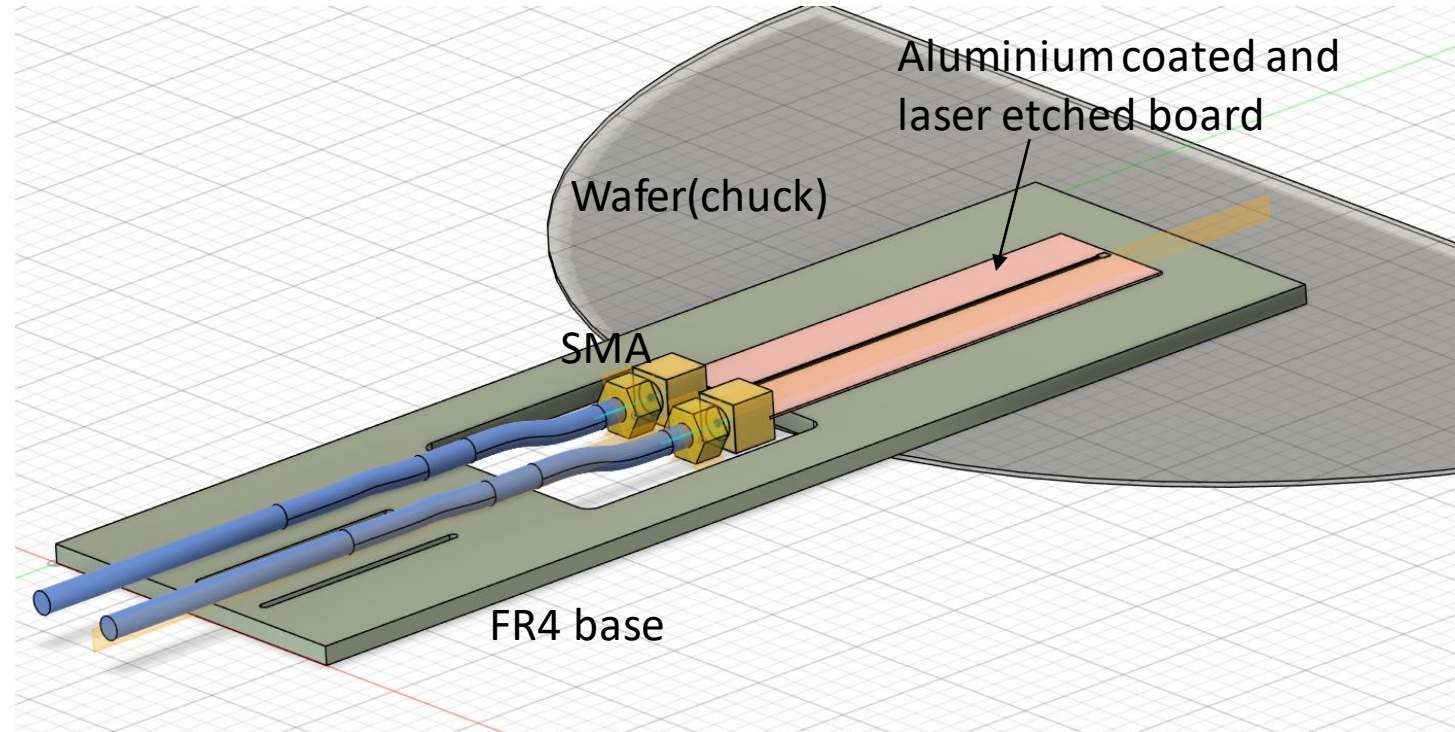
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Other:

- ITS3 plenary meeting: <https://indico.cern.ch/event/1603472/>
- MOSAIX delivery date unclear yet

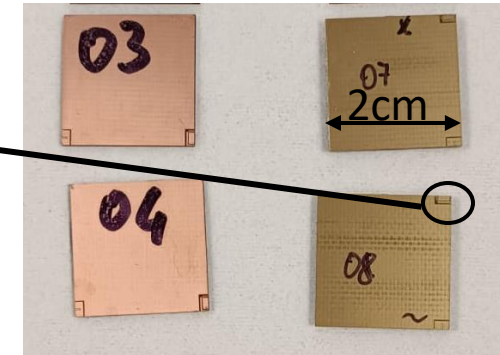
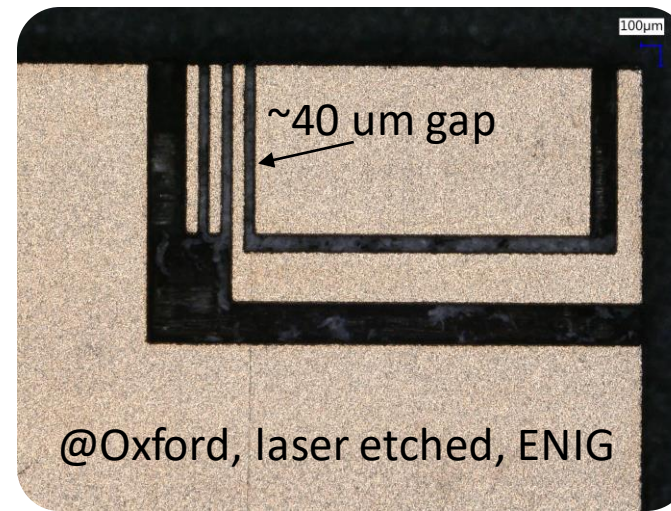
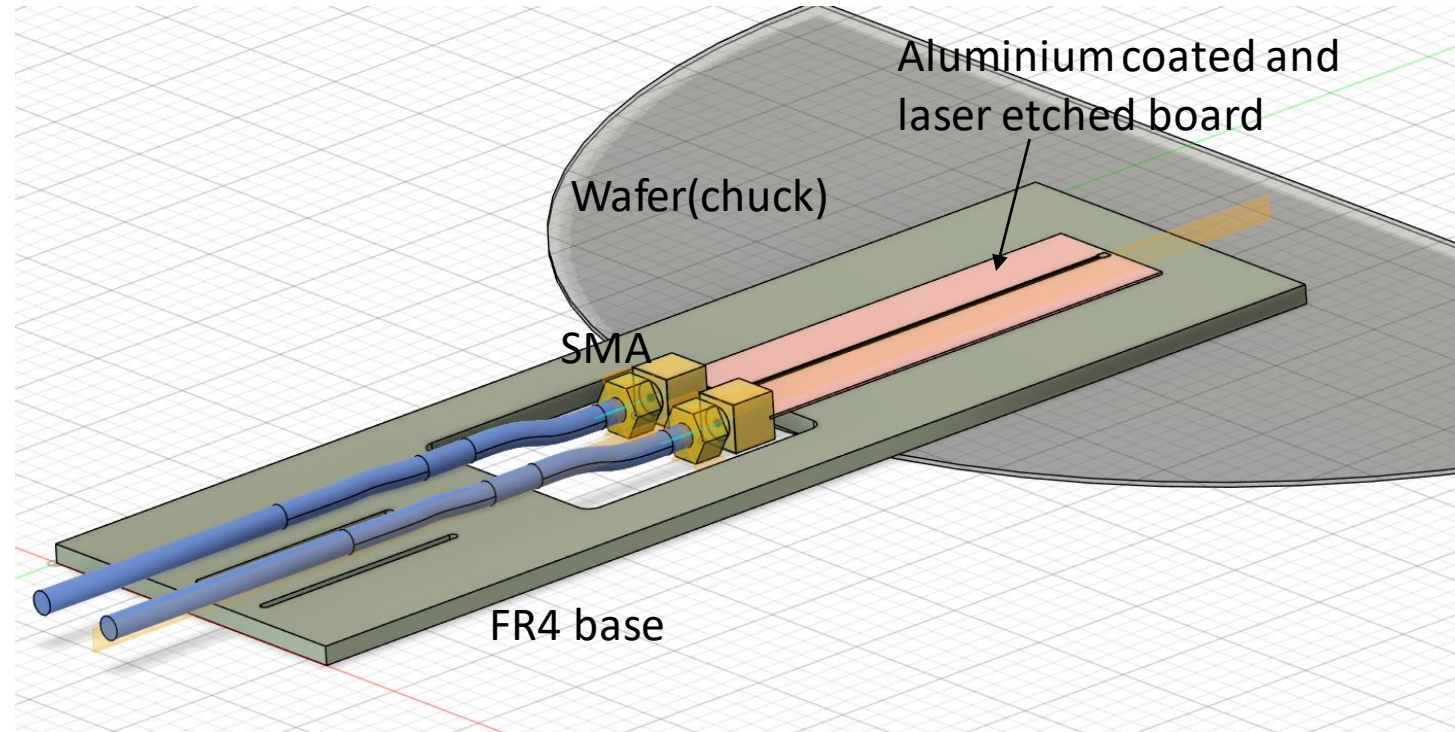
Probe card characterisation without NKF7

- Contact one differential pair with a test fixture
- Measure prbs from enclustra, signal generator, and 4-port VNA S-curve
- Need to contact on aluminium -> laser etch on Al-coated FR4 (done before /w Antoine) – impedance matched
- Use edge SMA which are screwed not soldered
- Mount on thick support (e.g. 4mm FR4) to mechanically decouple high speed cables



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- Alternative: Impedance matched loopback (double ended) -> fast, no need to route out cables (trace length important, reflections – but quick check with Stefano promising regarding pinout)
- Additional route: test fixture from MPI -> do both in parallel (short/long term NKF7/MOSAIX pinout)



Backup

VNA setup @Oxford

Use VNA to perform 4-port measurement:

