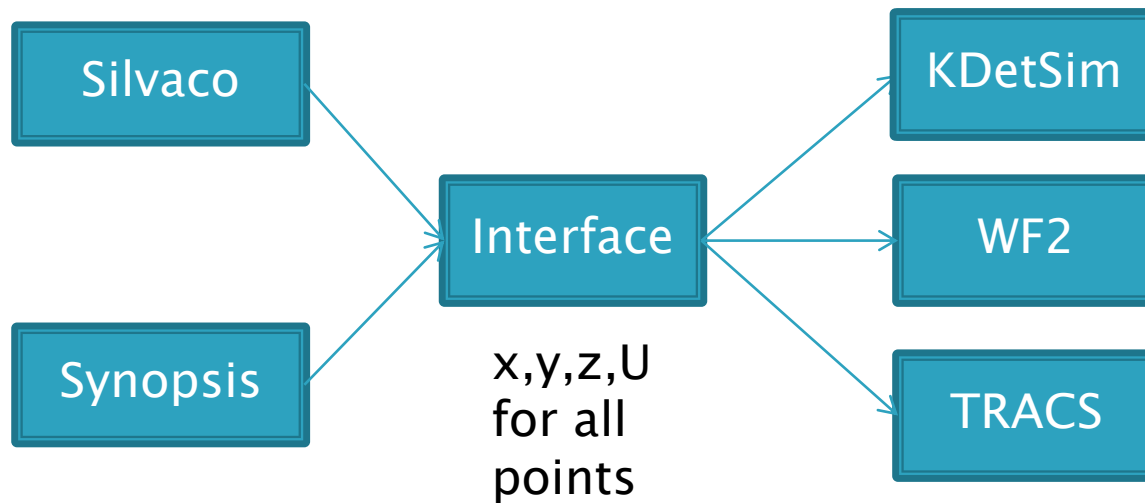


# Discussion

# Simulations

- ▶ Interface from TCAD to simulation tools
  - a reader for both Silvaco, TCAD files that can be imported to different tools



# Particulars DAQ

Current version PSTCT is 1.64

- ▶ Improvements from previous versions
  - Time acquisition of waferforms
  - Improved BM
- ▶ What will be done
  - Temperature reading for each individual plot (this has to be communicated with DESY, Freiburg)
- ▶ ??

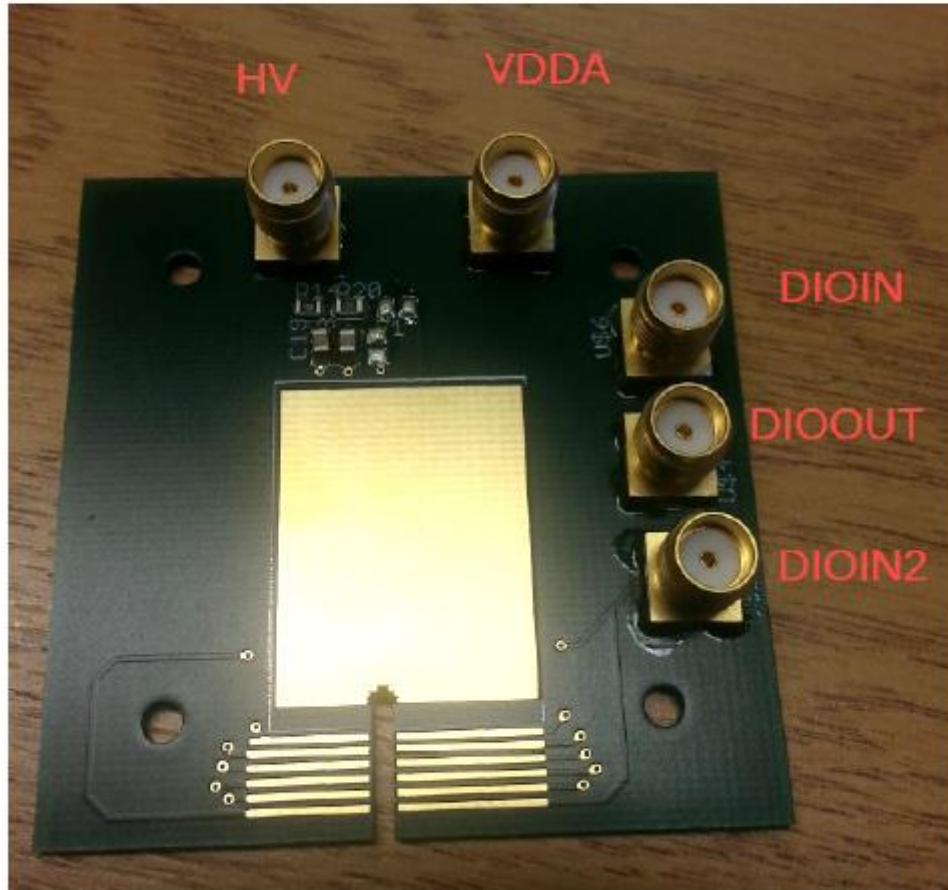
# Common analysis

- ▶ DESY has a large repository
- ▶ If you see any problem – e.g. mechanical misalignment, distortion that appears in the picture and can be corrected for offline
  - If you have the code would you share it?
  - If you need a specific solution please let us know



# H35DEMO TCT Board

6 Layer board with separate planes for all signals to reduce noise

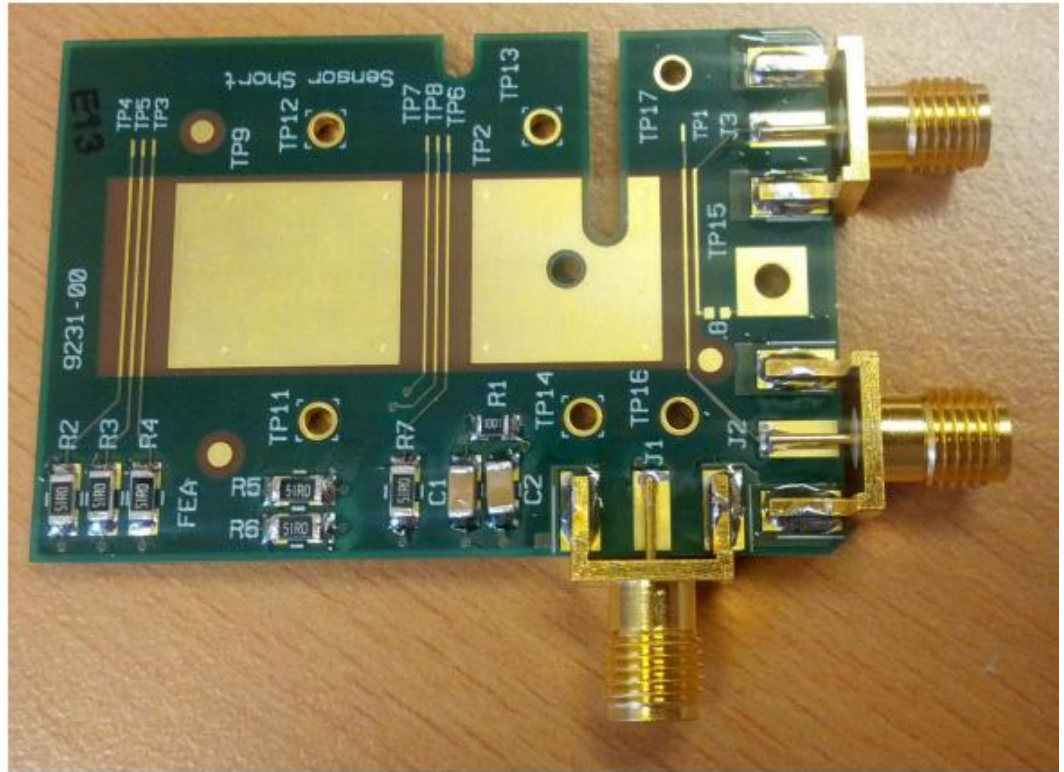


- PCB fits onto Particulars support plate for cooling (holes match threads)
- 1.27mm (0.05") wide slit for edge-TCT



- Designed at DESY
- For Top/Bottom/Edge-TCT
- Usual sensor size:  
10 mm x 10 mm
- Up to 30 mm x 10 mm
- Filtered HV from J1
- Two signals
- Hold-down clamp  
→ No glue needed
- Mount for measurement  
and bonding

Very good impedance matching - no ringing



06.10.15 | 1<sup>st</sup> TCT workshop 2015 | Hendrik Jansen

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# CERN/Lancaster holder

- ▶ Alumina hybrid
- ▶ Good thermal contact
- ▶ Isolator
- ▶ Difficult to bond/route thin lines

