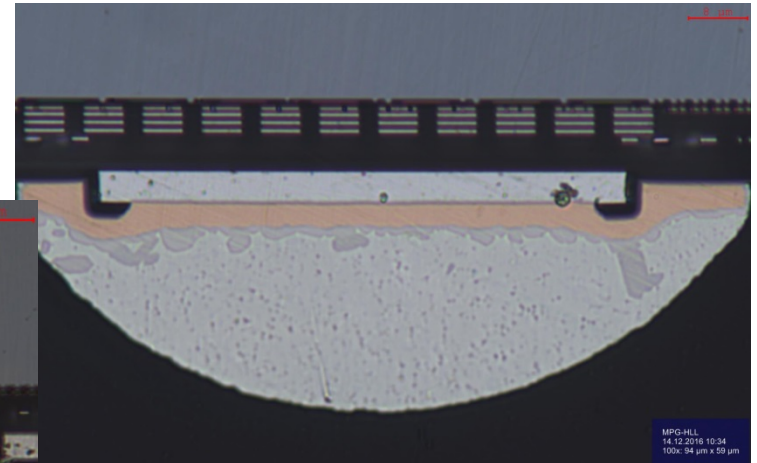
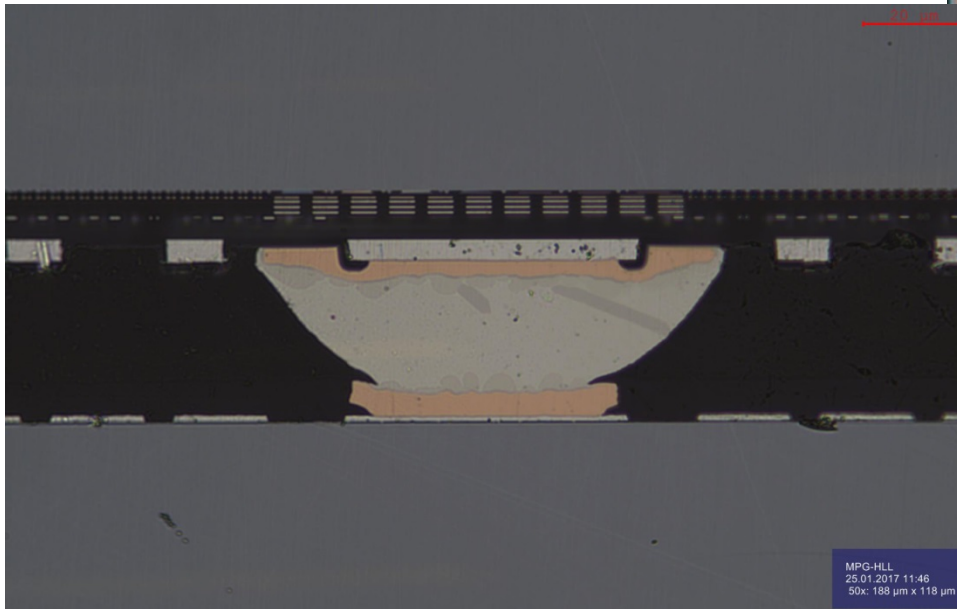




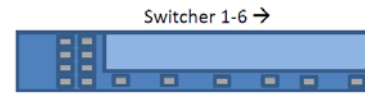
## IB/OB JTAG Puzzle

- ▷ After checking all first order suspects (r/o system, PS, grounding, re-test of SWBs ...)
- ▷ Detailed x-ray inspection, cross sections ...
- ▷ No anomalies, no "smoking gun"

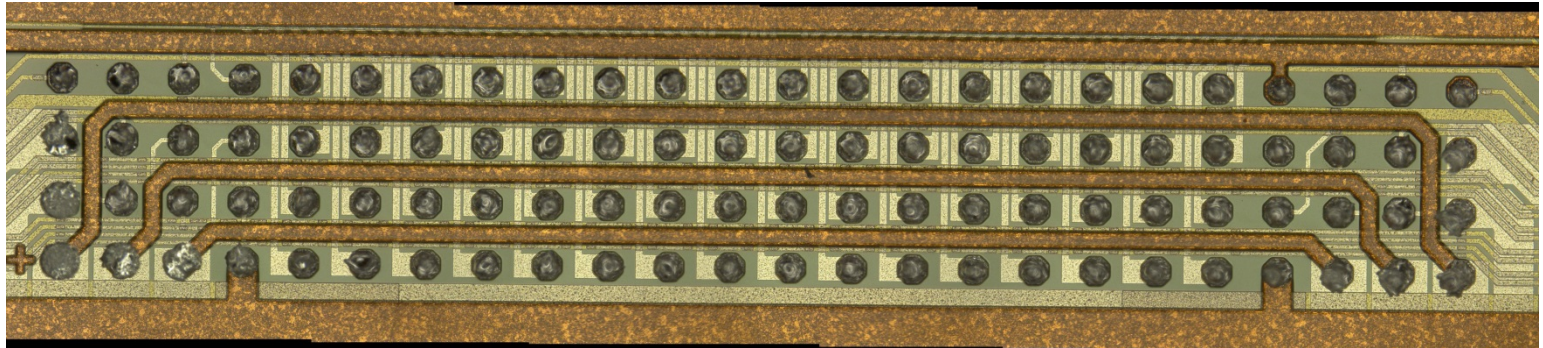


- ▷ All SWBs from W31-OB2 have been removed today (manual de-soldering)

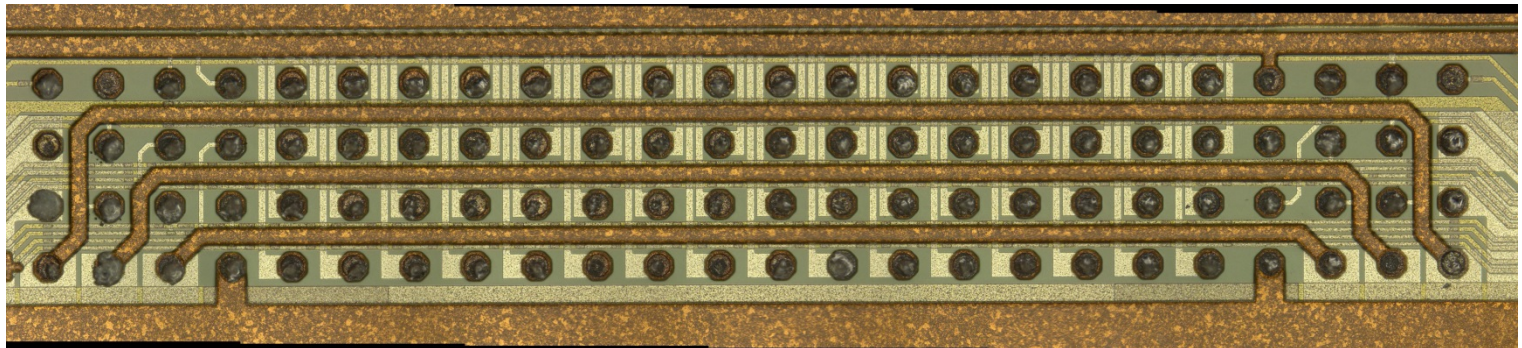
# Pads on Module after removal



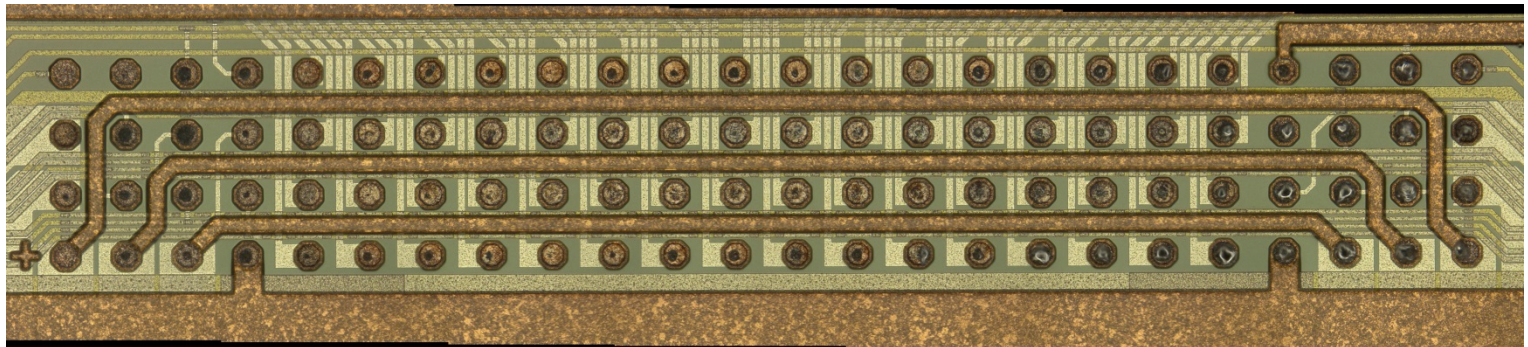
SWB1



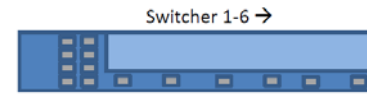
SWB2



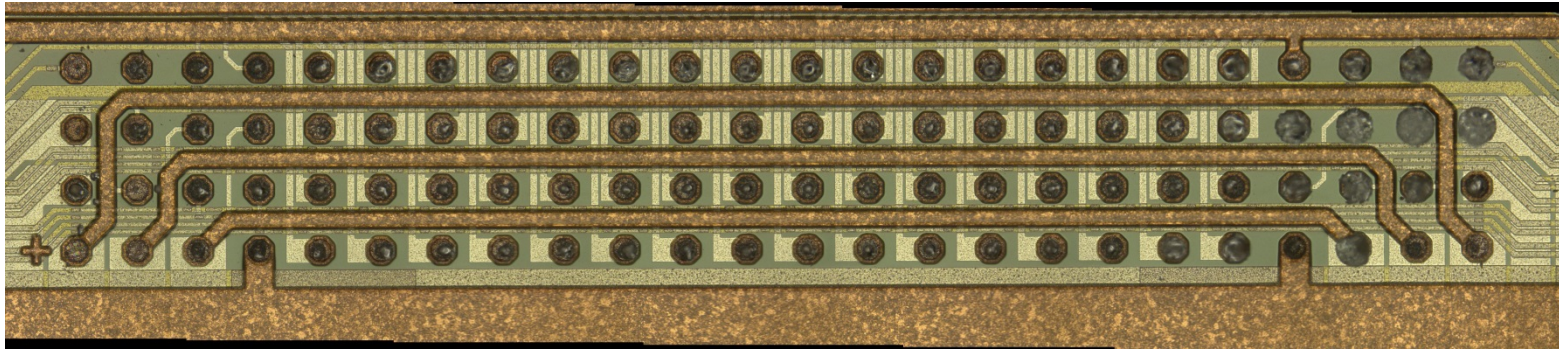
SWB3



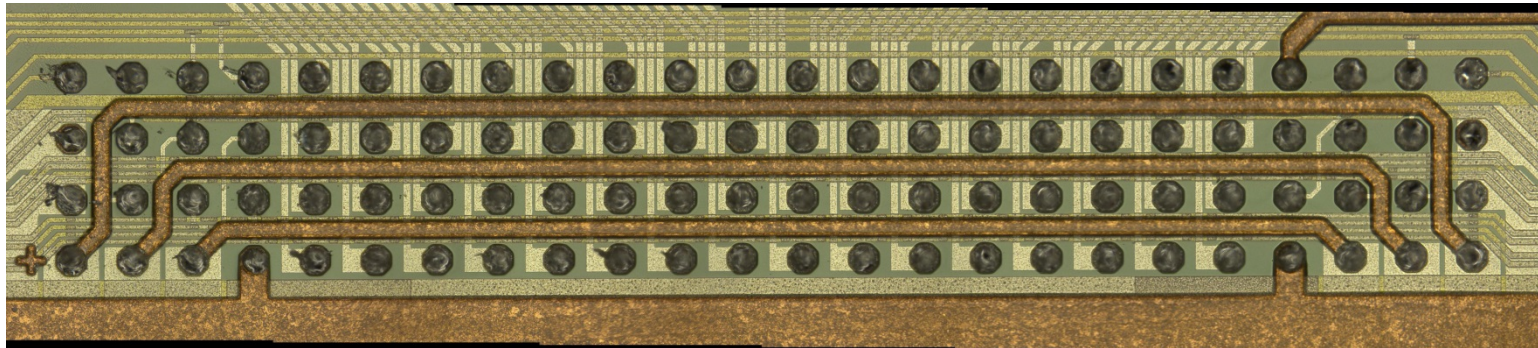
# Pads on Module after removal



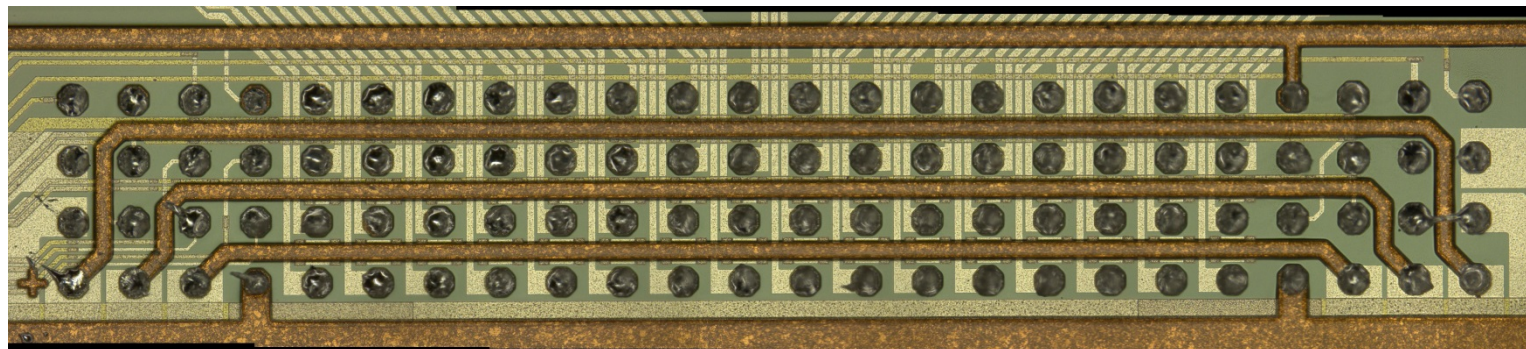
SWB4



SWB5



SWB6



Hi-Res pictures at <http://hll.mpg.de/~lca/temp/W31-OB2-after-SWB-removal/>

- ▷ Going from SWB1 → SWB6 wetting gets worse towards SWB3 and 4, then better towards SWB5 and 6
  
- ▷ Possible reasons
  - ↳ Reflow temperature not reached in the middle of the module due bad contact to the heat plate
    - ↳ talk to IZM....
    - ↳ In this case a second (local) reflow with HCOOH or flux might help
  
  - ↳ BCB (final passivation, solder stop) residues on the pads
    - ↳ Inhomogeneous „descum“ (plasma process is worse at bottom and at the edge of the wafer..)
    - ↳ Needs cross check,
      - ↳ possibly more descum, currently we remove 300-400 nm of BCB after final passivation