

# Irradiation tests: next few months

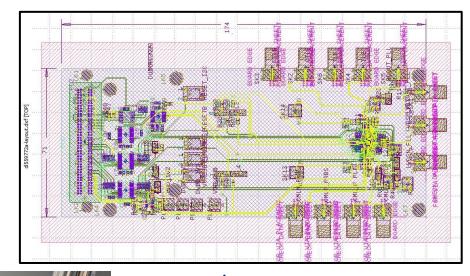


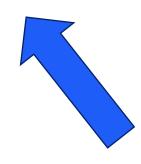
### What is available

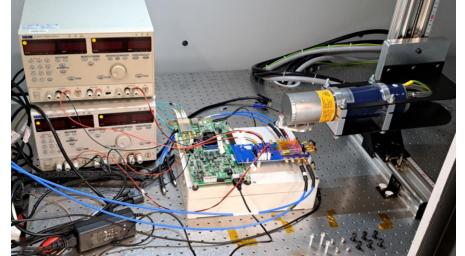
39 dies available at DL of er1 HighSpeedDataBlock



To be mounted on existing carrier boards at B'ham (5 available, to reuse the same carrier bords for different chips)









To do TID irradiation at DL

## How to proceed

#### **Activity overview:**

- To be ready to irradiate some of the AncASIC blocks/structures in spring 2025.
- To improve the level of maturity of X-ray set-up at DL;
  - Further comparative irradiations with CERN X-ray systems
    - (RAL could also be an option)
- To improve the level of understanding on the irradiations of the er1 HighSpeedDataBlock;
  - Simple measurements like current Vs TID and PLL output Vs TID;
  - Experiment with annealing;

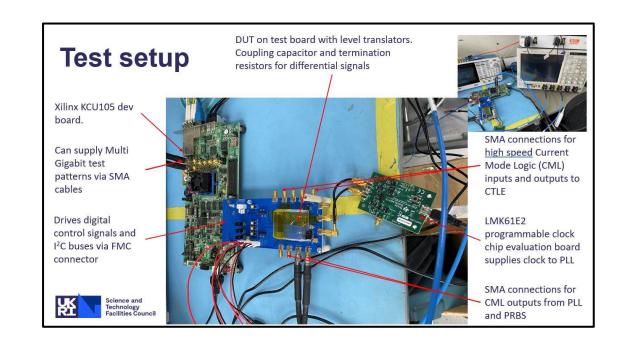
#### Set-up:

- to re-use what William already developed;
- to use existing 4GHz bw in-house oscilloscope
  - (tests will be limited to low speed)

#### Manpower:

- Liam G. electronics apprentice
  - (time is free of charge to the project)







## Thank you



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