UNIVERSITY OF BIRMINGHAM

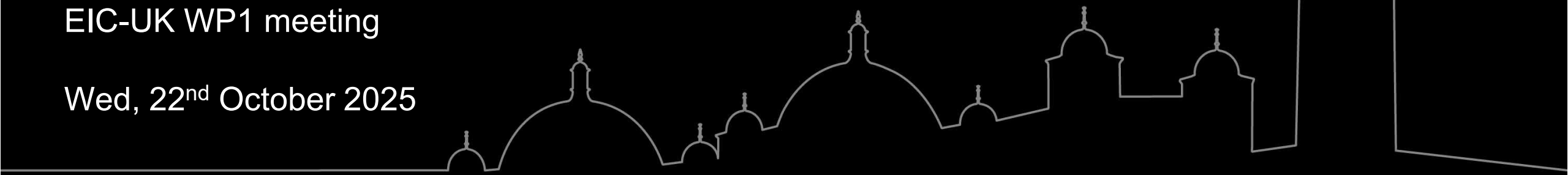
ePIC UK

FPC Interface Board update

James Glover

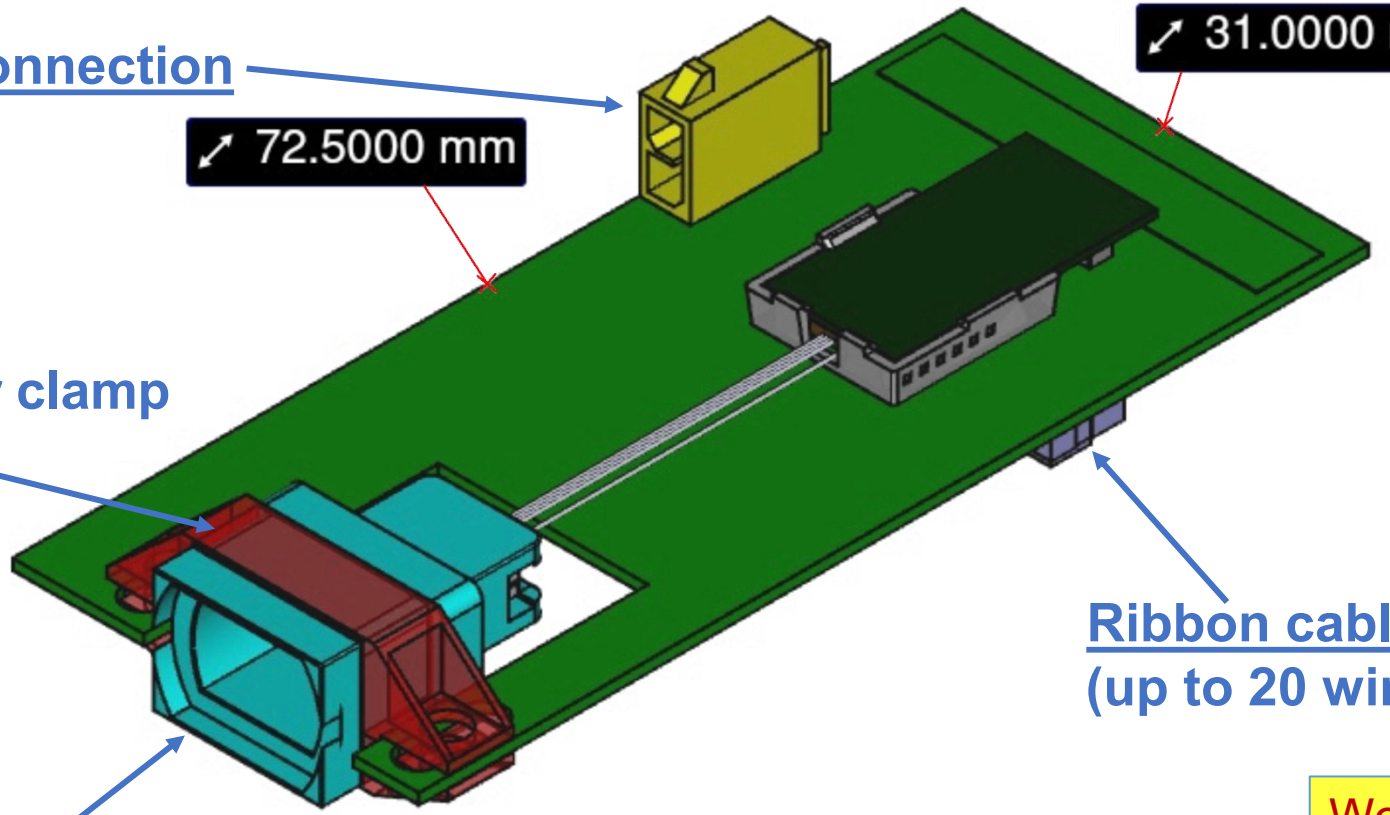
EIC-UK WP1 meeting

Wed, 22nd October 2025



FIB: from 2 weeks ago

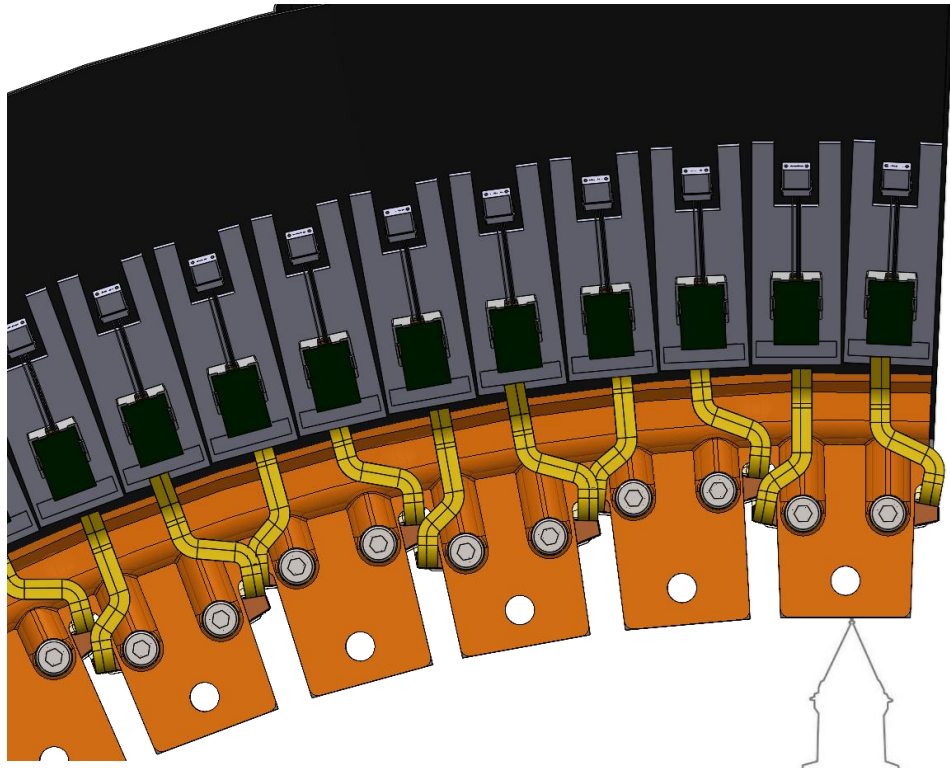
- Larger than previously expected – up from 20 × 70 mm.



Work in progress

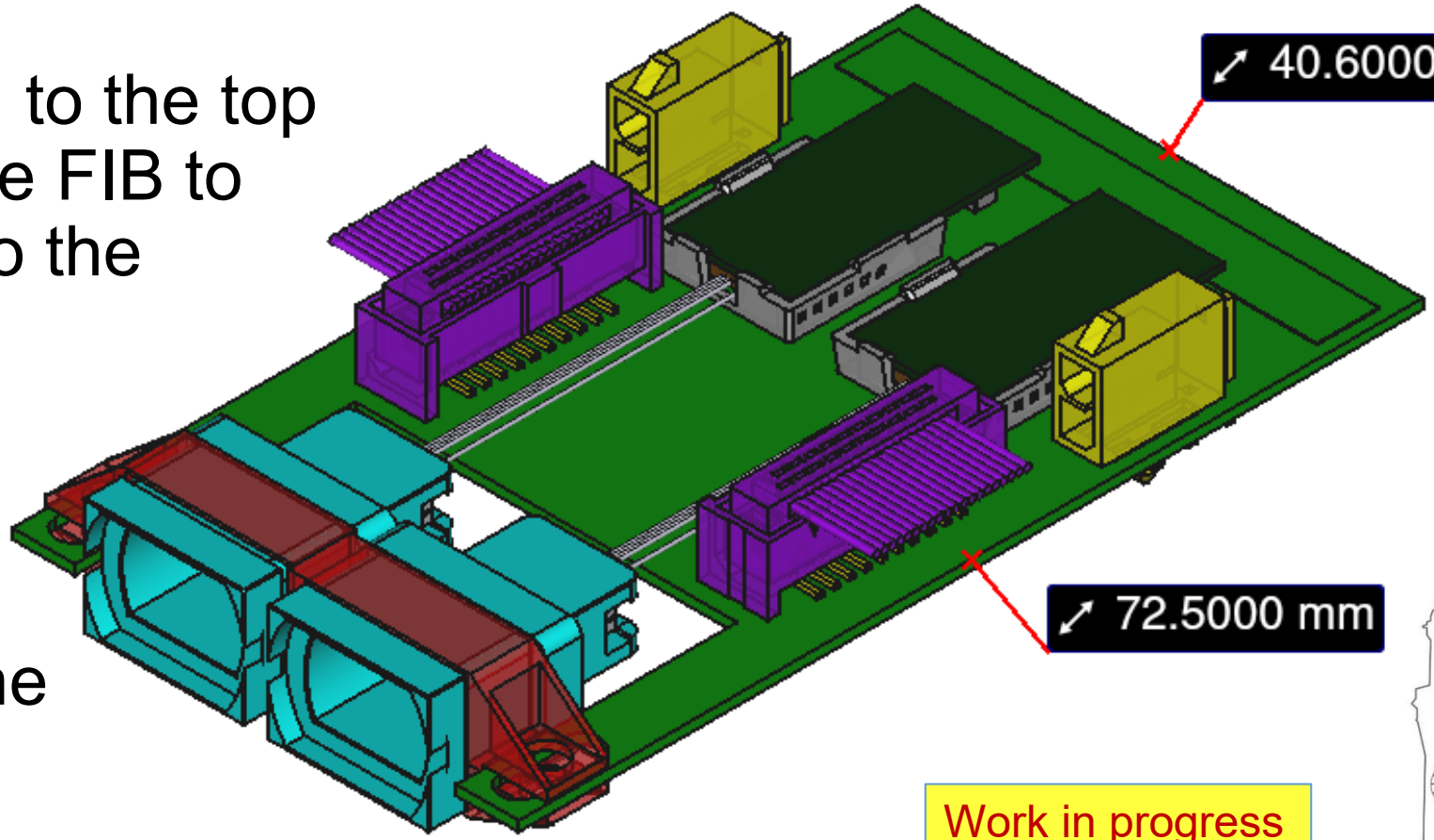
L4 integration issues

- Adam reported the L4 FIBs spread on the support cone.
- 2 FIBs (20 mm wide) per L4 stave end was already tight.
- Would not fit anything close to 31 mm wide FIBs.
- Looked into combining 2 FIBs onto 1 PCB.
  - Separate circuits.
  - Interlink MTP clamps to save space.
  - Very similar to the (old) ITS3 SIB design.
  - Only for L4 as FIBs from same stave are paired together.



L4 FIB

- Still needs refining.
- All connectors moved to the top PCB surface to enable FIB to be directly mounted to the support cone.
- Ribbon and power connectors would not work like this.
- May need to make one a vertical connector.



Work in progress

Summary

- FIBs are still a work in progress.
- Incorporating the integration constraints into the design.

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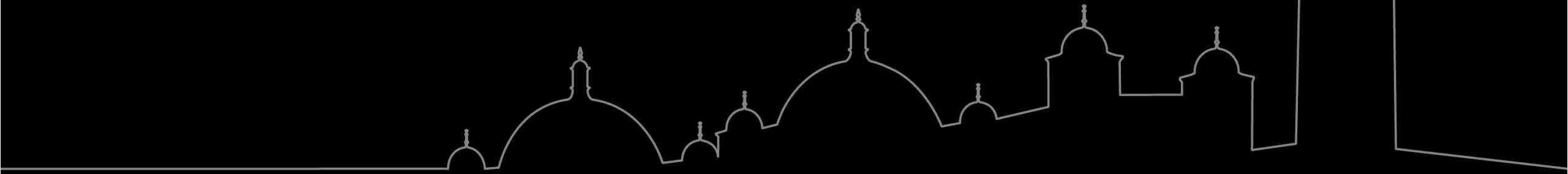
Thank you very much!

Any questions?



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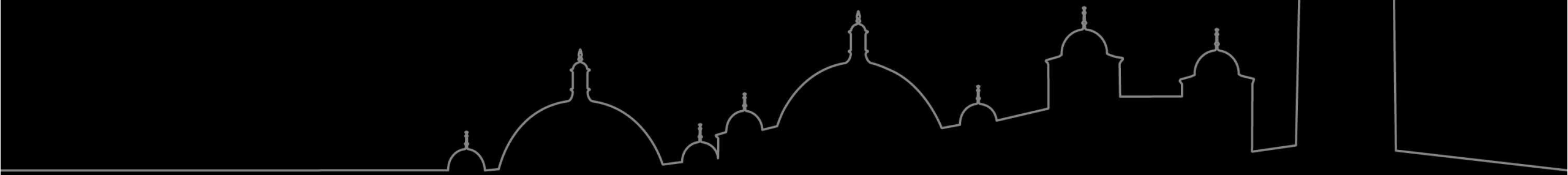
Additional (support) slides