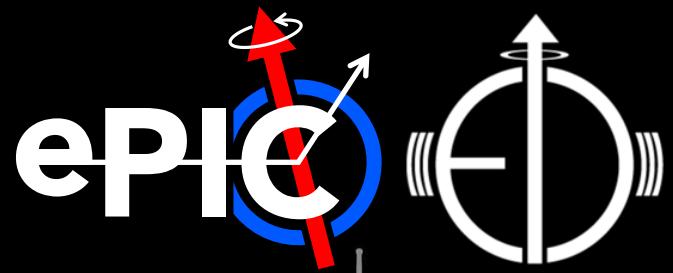




UNIVERSITY OF
BIRMINGHAM

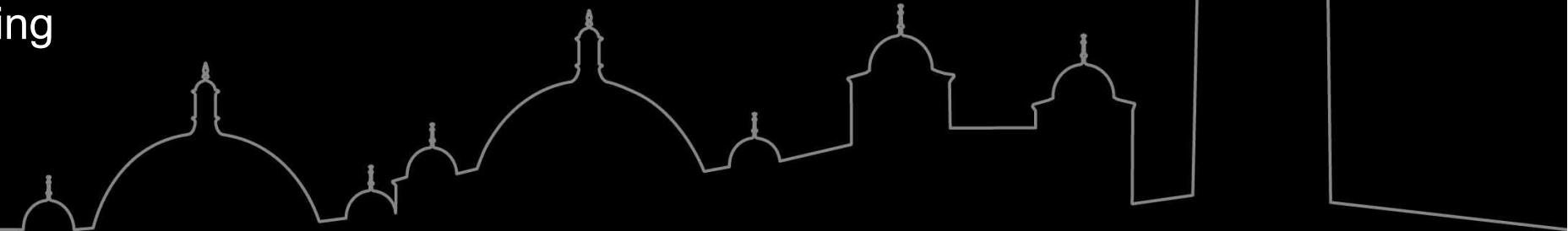


Thin, Diced Dummy Silicon (Delivered from CERN to B'ham)

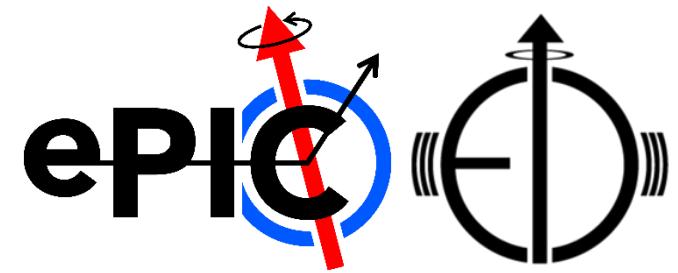
James Glover

OB module: ad-hoc meeting

Mon, 10th June 2025



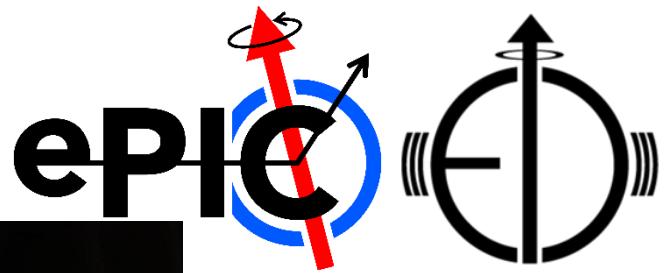
Dummy silicon for ePIC SVT



- Prepared, thinned and diced by DISCO.
- Delivered as full wafers with adhesive foil (to hold chips in place).
- Chips removed from backing foils at CERN, as [reported by Georg Viehhauser](#) @ SVT general meeting (13th May '25).
- Samples prepared for SVT IB, OB and Discs.
- Only OB samples and off-cuts shipped to UK.
 - 5RSU_LAS and 6RSU_LAS.
- A mixture of shipping containers trialled.
 - Membrane boxes (preferred by CERN who don't ship via courier, no adhesive).
 - GelPaks (Good experience from ATLAS for international shipping but not trialled with 50 µm silicon, removal is a worry).



Package received

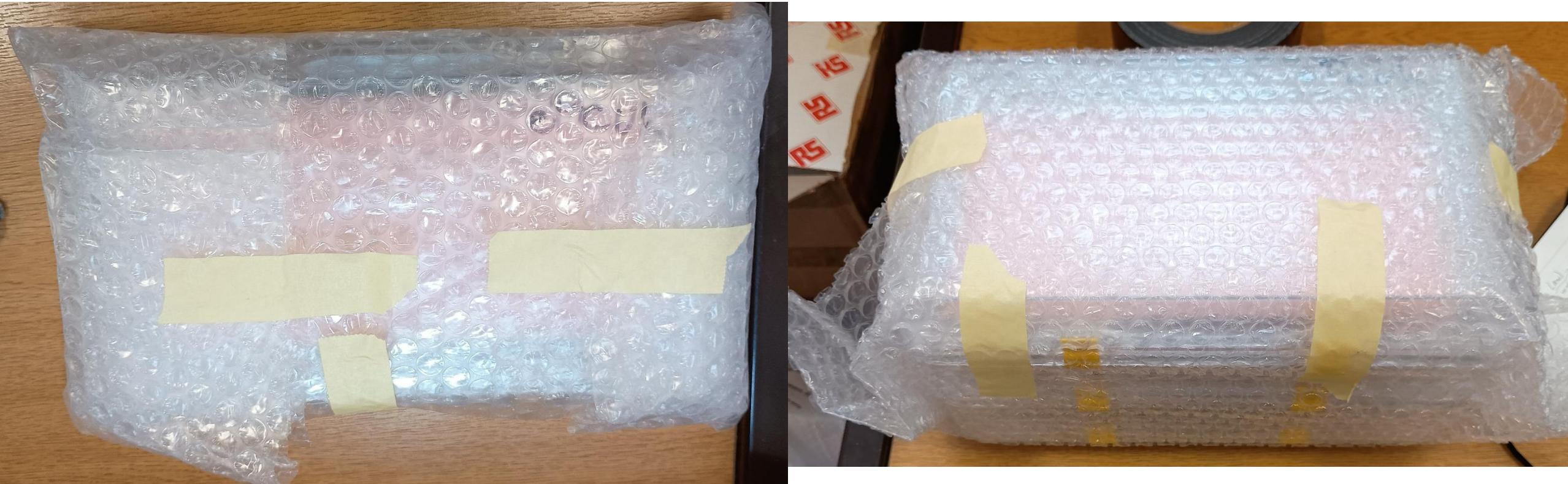
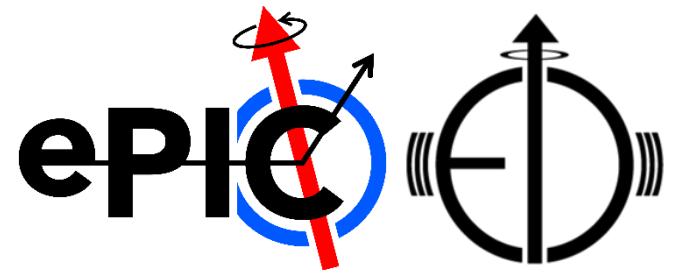


UNIVERSITY OF
BIRMINGHAM

10 June 2025

OB module: ad-hoc meeting

Membrane boxes



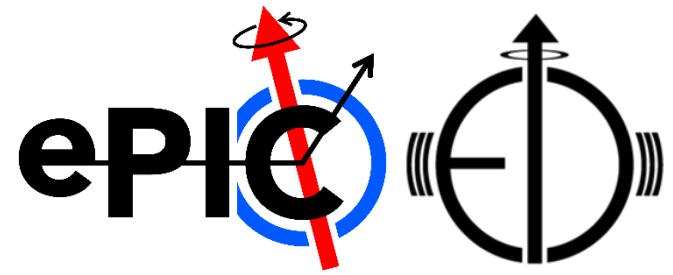
Multiple bundles of boxes packed.



10 June 2025

OB module: ad-hoc meeting

Membrane boxes



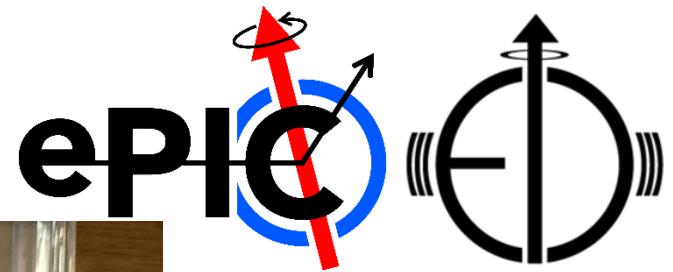
UNIVERSITY OF
BIRMINGHAM

10 June 2025

OB module: ad-hoc meeting

5

Opening the membrane boxes



Layer of ESD
safe foam
and lint-free
paper on the
top of the
silicon.

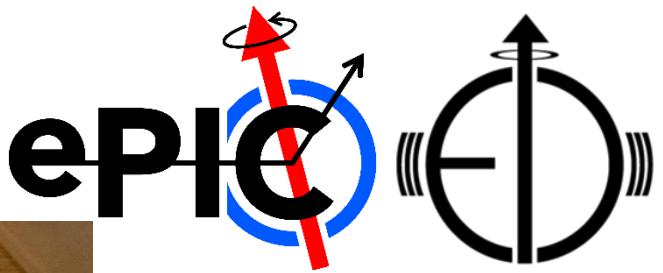


OB module: ad-hoc meeting



UNIVERSITY OF
BIRMINGHAM

Opening the membrane boxes

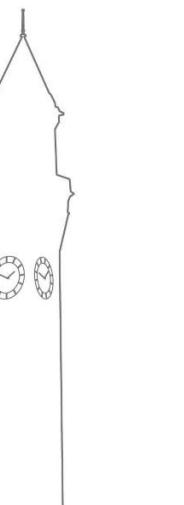


Silicon
appears to
have moved
during
shipment!



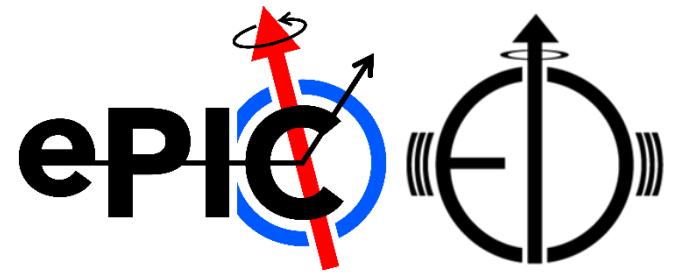
UNIVERSITY OF
BIRMINGHAM

10 June 2025

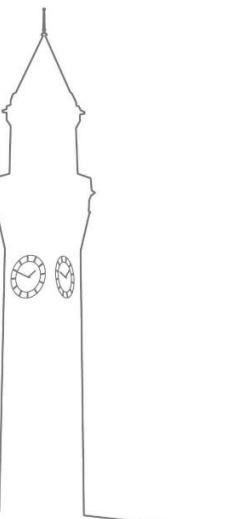


7

Sanity check



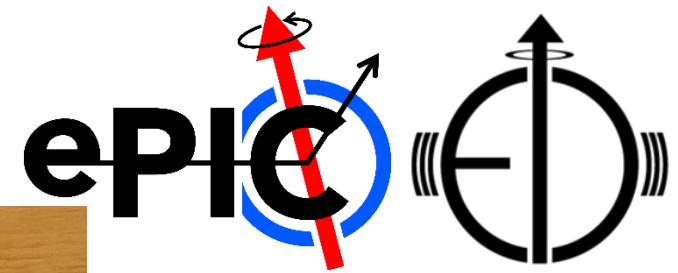
Confirmed that opening of box and/or removal of foam and paper did not move the silicon.



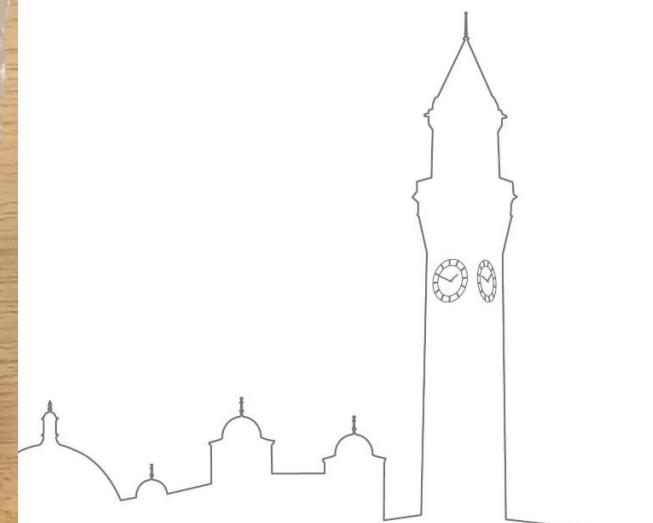
UNIVERSITY OF
BIRMINGHAM

GelPaks

Two bundles received, one with 2 empty GelPaks and the other with off-cuts and edge pieces.



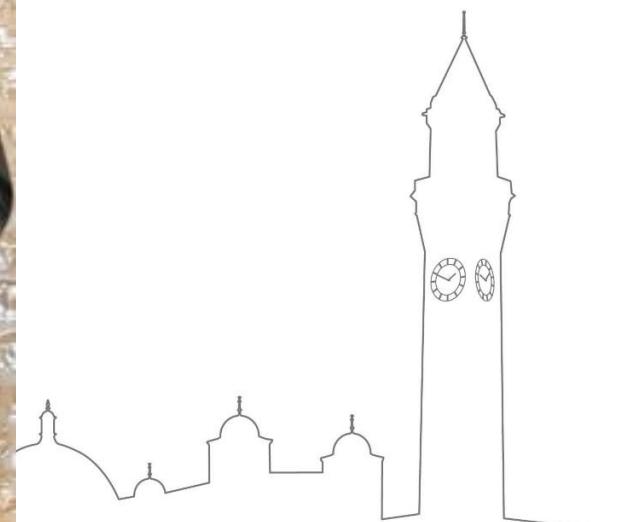
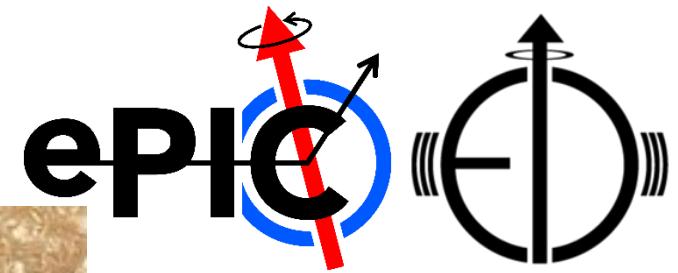
OB module: ad-hoc meeting



UNIVERSITY OF
BIRMINGHAM

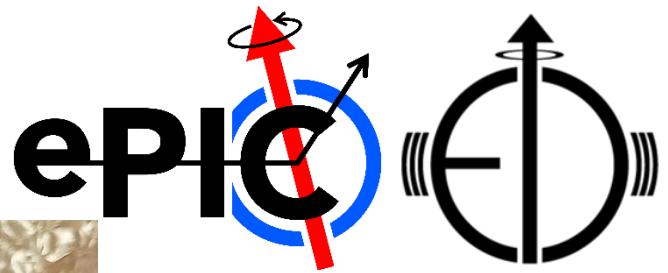
GelPaks

One bundles
of 4 GelPaks
received, 2
empty and 2
with off-cuts
and edge
pieces.

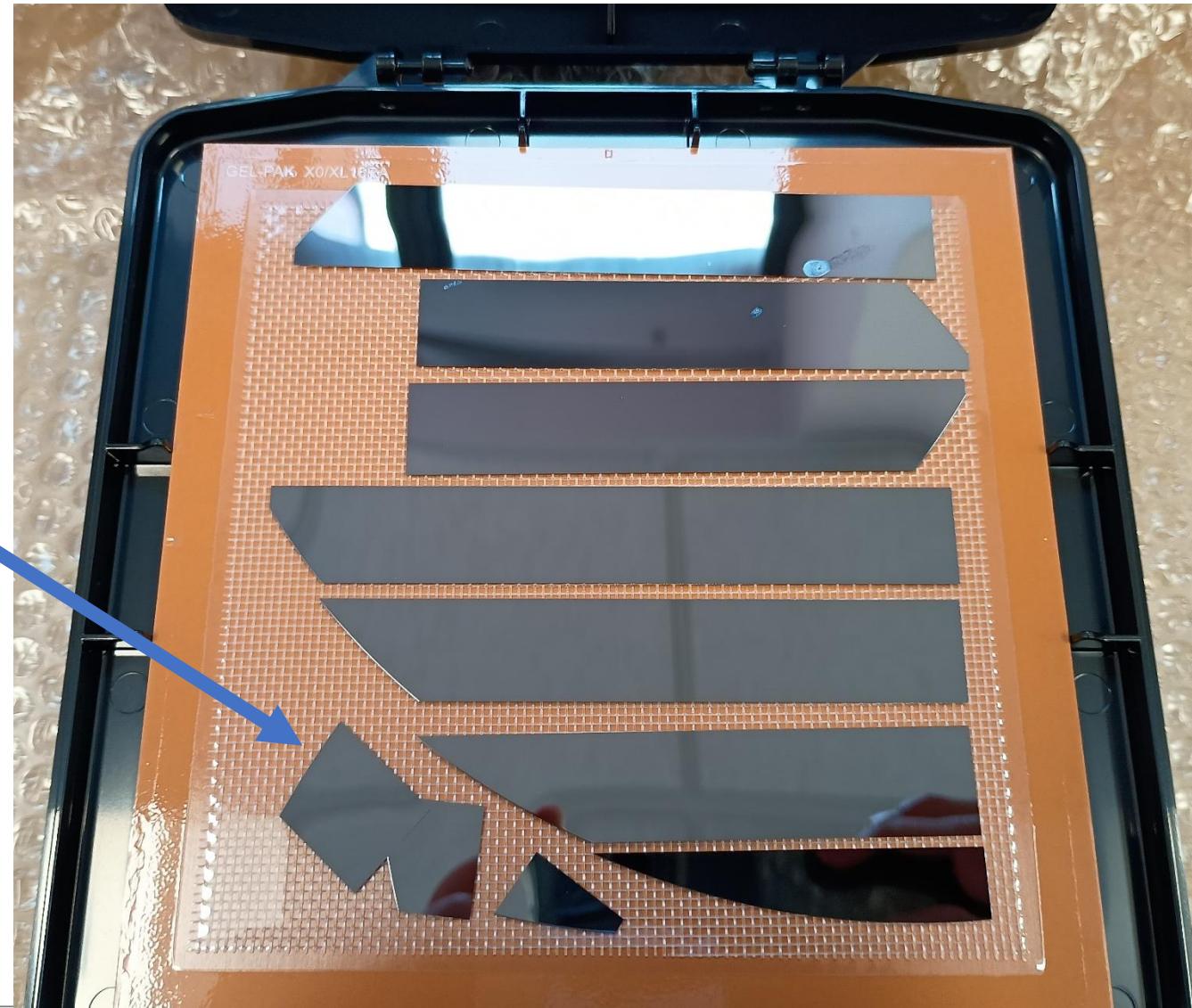


UNIVERSITY OF
BIRMINGHAM

Opening the GelPaks



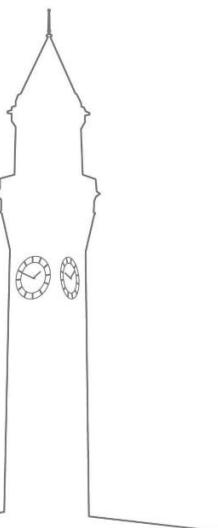
One small off-cut appears to have moved. Could this just have been misplaced?



OB module: ad-hoc meeting

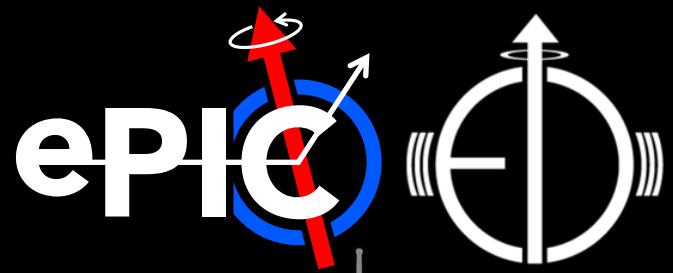


UNIVERSITY OF
BIRMINGHAM



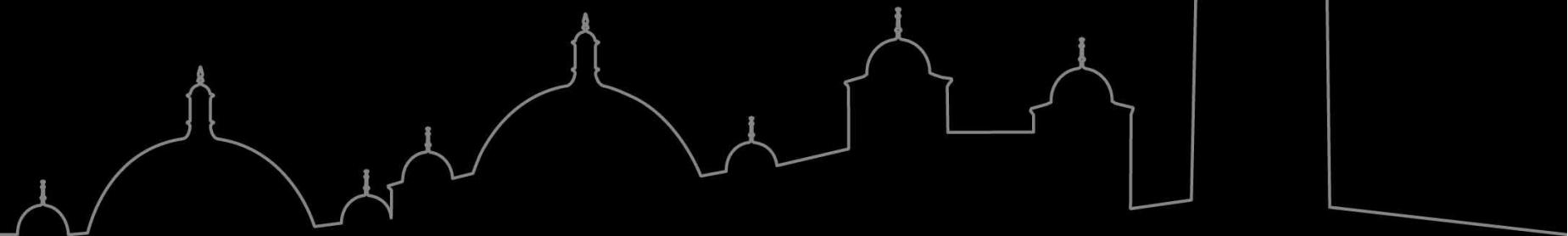


UNIVERSITY OF
BIRMINGHAM



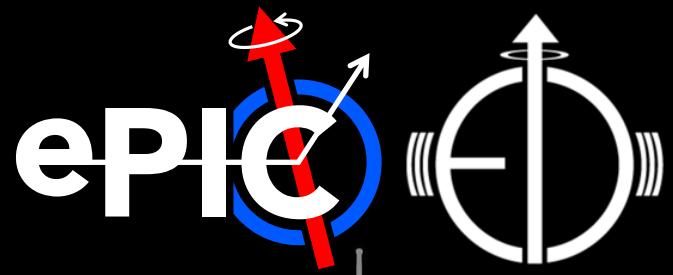
Thank you very much!

Any questions?

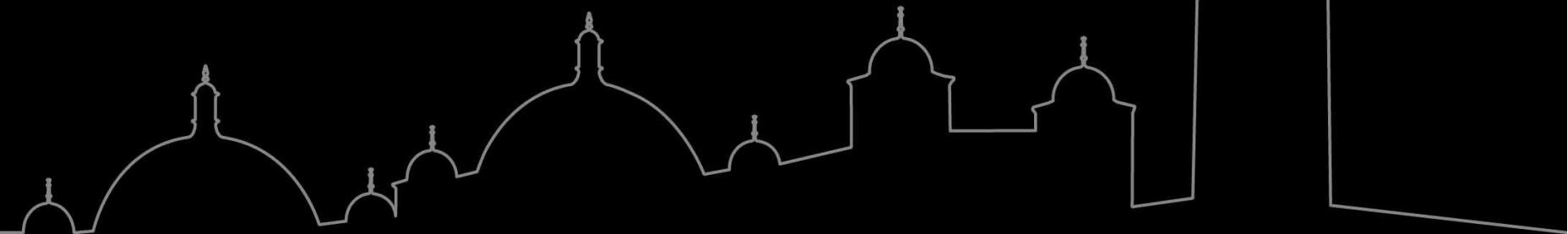




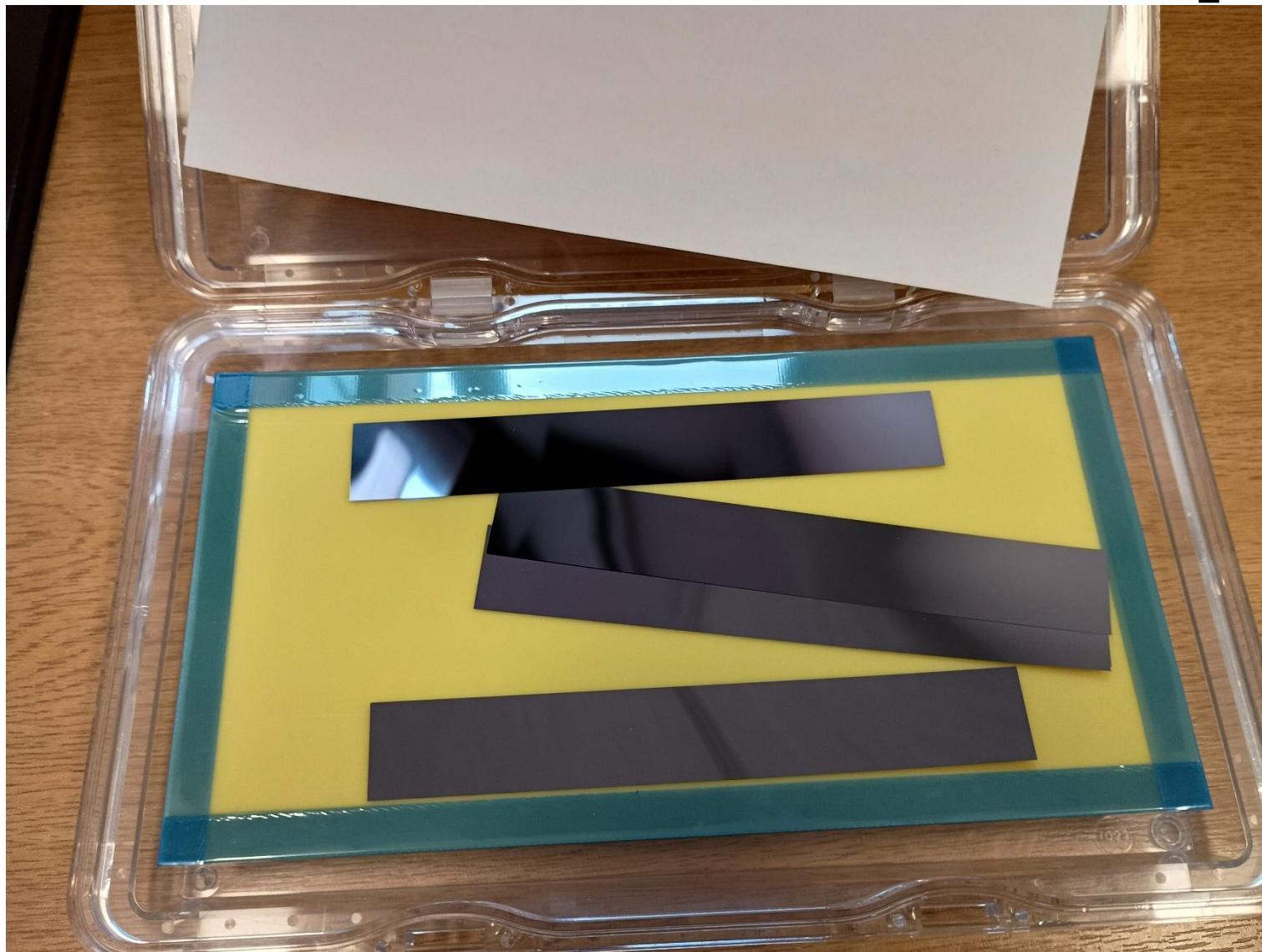
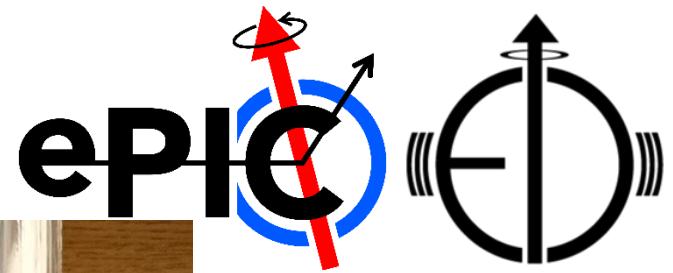
UNIVERSITY OF
BIRMINGHAM



Additional (support) slides



Membrane box #2



OB module: ad-hoc meeting

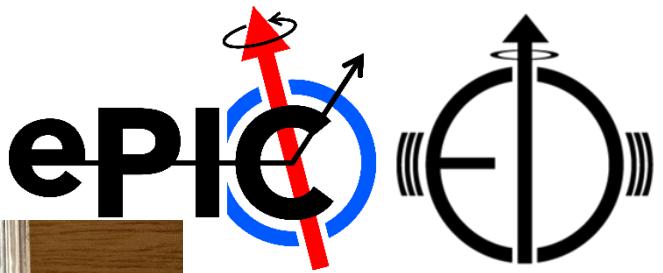


UNIVERSITY OF
BIRMINGHAM

10 June 2025

14

Membrane box #3



OB module: ad-hoc meeting

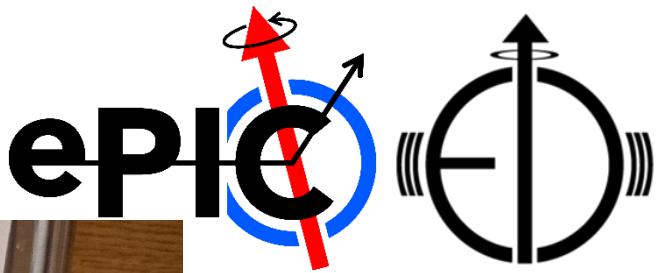


UNIVERSITY OF
BIRMINGHAM

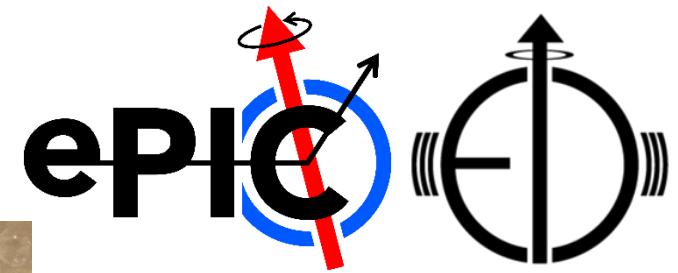
10 June 2025

15

Membrane box #4



GelPak #2



No issues seen!



OB module: ad-hoc meeting



10 June 2025