



Imperial College London

WARWICK



## **FETS** meeting

by Peter Savage

6<sup>h</sup> June 2012



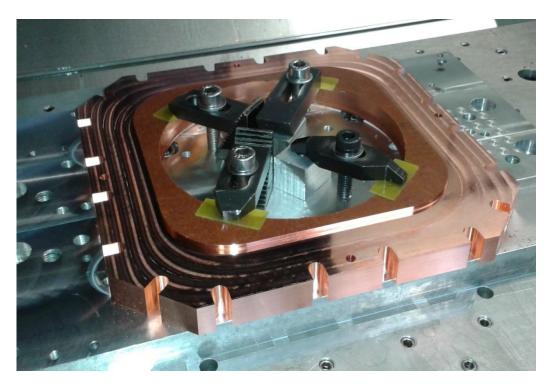


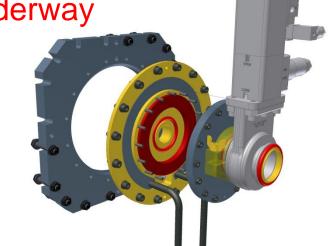
# RFQ Status – section 1 due for delivery 1<sup>st</sup> week of July.





# RFQ end flange Status – machining underway

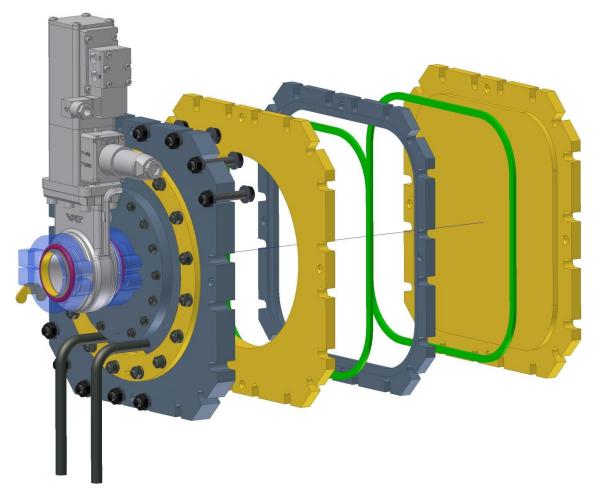








#### RFQ end flange vacuum test Status – design done, material in stock.





QN: Vac valves ordered?

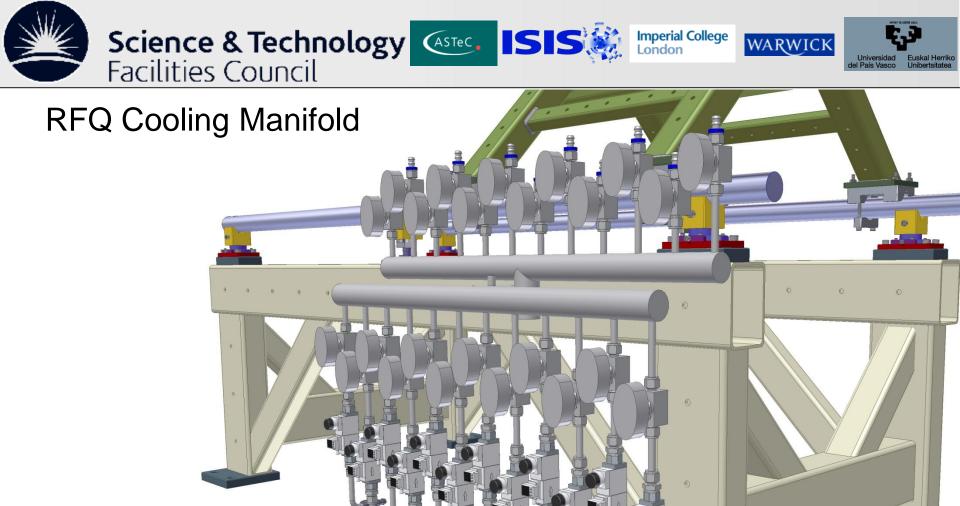


Figure 1

Figure 2

Figure 3

Figure 1 shows the end flange protrusion in a retracted position. Figure 2 shows the protrusion in the default 'as simulated' position. Figure 3 shows the interior with the protrusion and the bead



#### Status

- 1. All bits and pieces in and ready to go.
- 2. Manifold build starts 11<sup>th</sup> June 2012.
- 3. Main pipe run cannot start until building work is complete.



## RFQ alignment jigs Status – manufacture close to completion



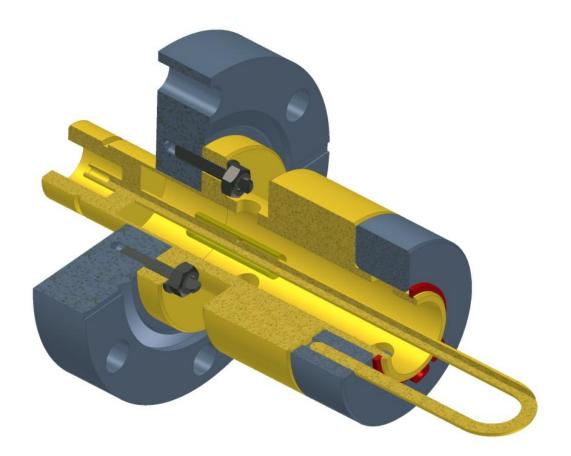


## RFQ diagnostics Status – parts on order to increase span





## RFQ coupling loop. Status – no progress made





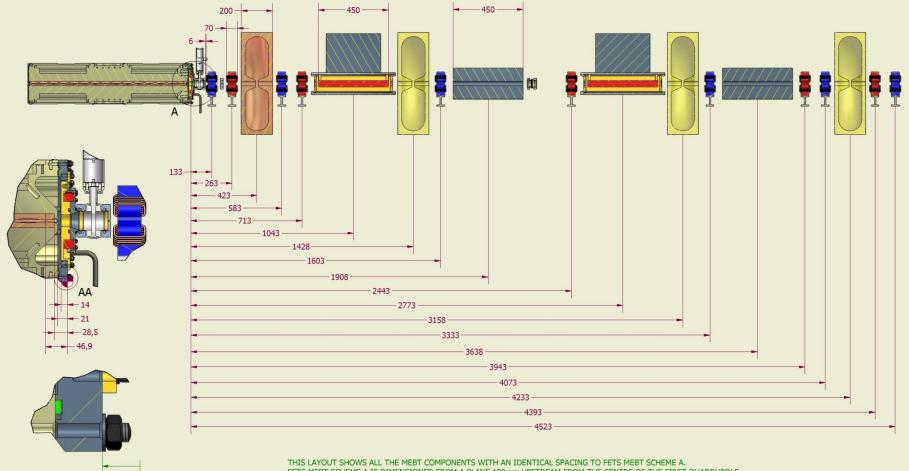
## LEBT beam pipe section 3 Status - decision needed before manufacture.





MEBT

#### Status - lattice simulation problems now understood



**RFQ OUTPUT PLANE** 

THIS LAYOUT SHOWS ALL THE MEBT COMPONENTS WITH AN IDENTICAL SPACING TO FETS MEBT SCHEME A. FETS MEBT SCHEME A IS DIMENSIONED FROM A PLANE 180mm UPSTREAM FROM THE CENTRE OF THE FIRST QUADRUPOLE. THIS LAYOUT IS DIMENSIONED FROM THE FETS RFQ OUTPUT PLANE. 1ST JUNE 2012



## Other items on the list.....

- 1. RFQ vane handling plan & fixture <<< top priority >>>
- 2. RFQ assembly plan in-place
- 3. Stiffening of FETS rails must be done prior to RFQ installation
- 4. Modification to cradle pads must be done prior to RFQ installation
- 5. Shielding initial investigations made.
- 6. Waveguide need to identify who will manage installation project
- 7. Ownership of MEBT components to be decided over Summer 2012.
- 8. O ring bonding jig to be made at Imperial
- 9. Clean tent update required from Alberto.
- 10. Vacuum tests for completed items use of vacuum system.
- 11. Electrical installation who will manage?
- 12. Waveguide installation project who?
- 13. RFQ conditioning Juergen / Alan
- 14. RFQ cooling baffles to be made at Imperial. Material in.
- 15. Coupler development get status from Spanish colleagues.
- 16. Diagnostics engineering support







