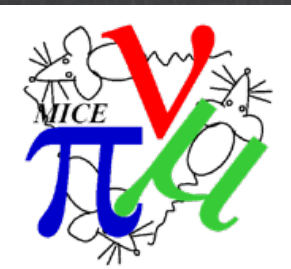




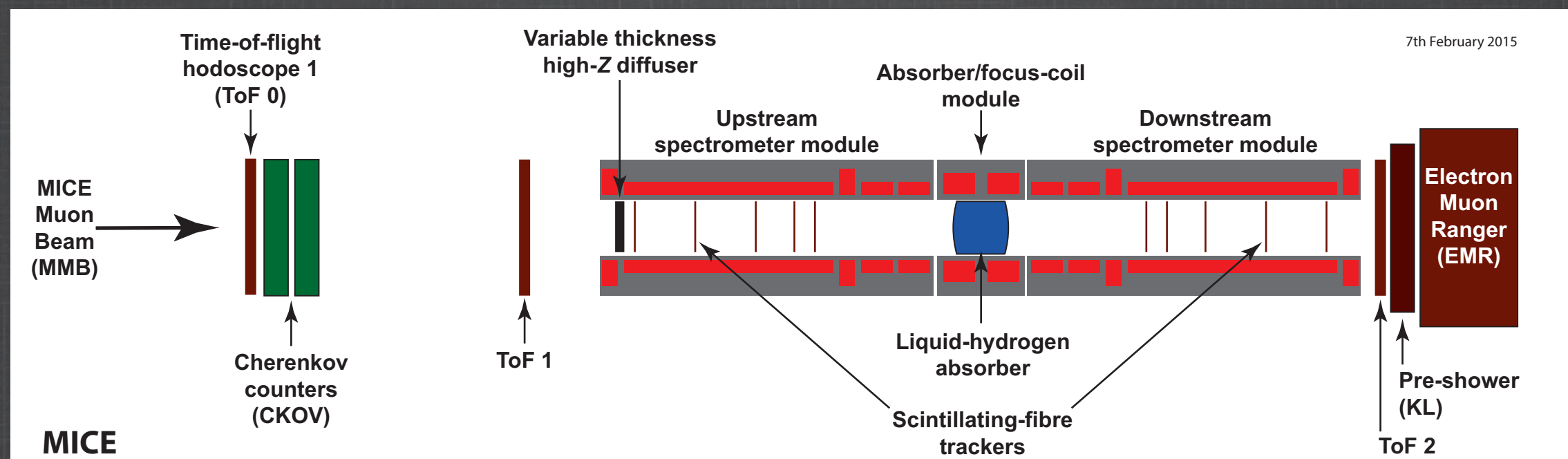
MICE: Moving Forward

JB. Lagrange, A. Bross, D. Kaplan

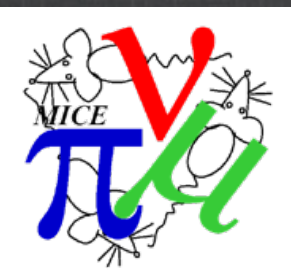
on behalf of the MICE collaboration



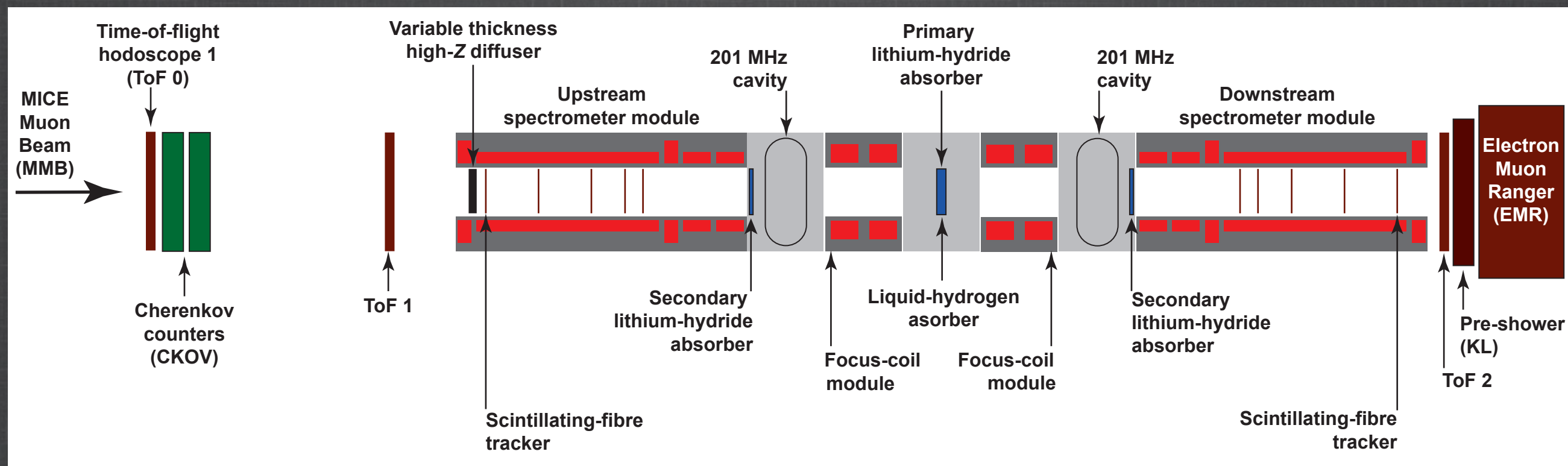
Step IV



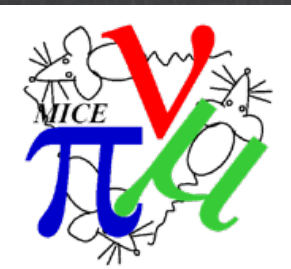
Commissioning this summer.



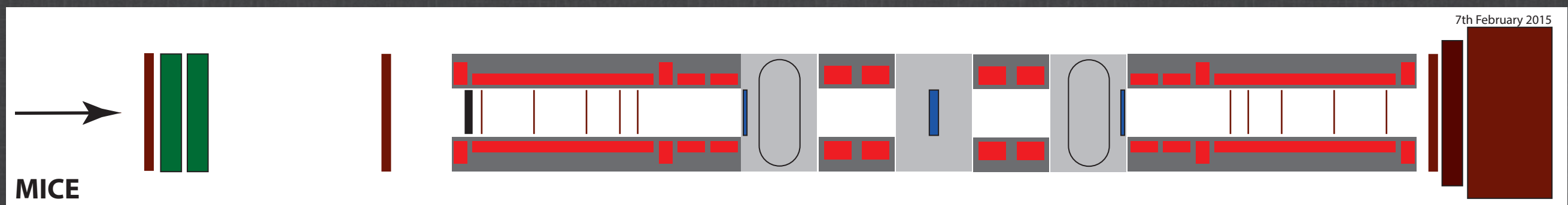
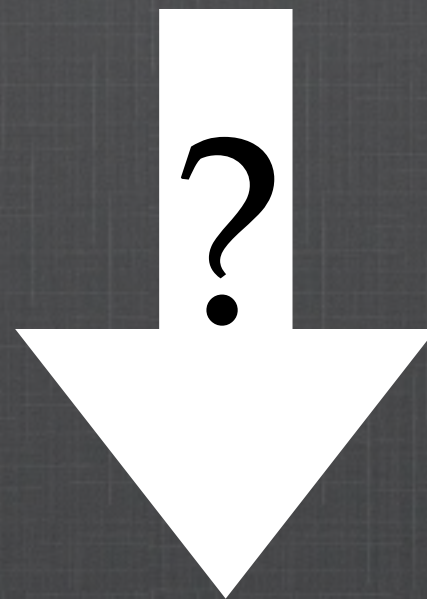
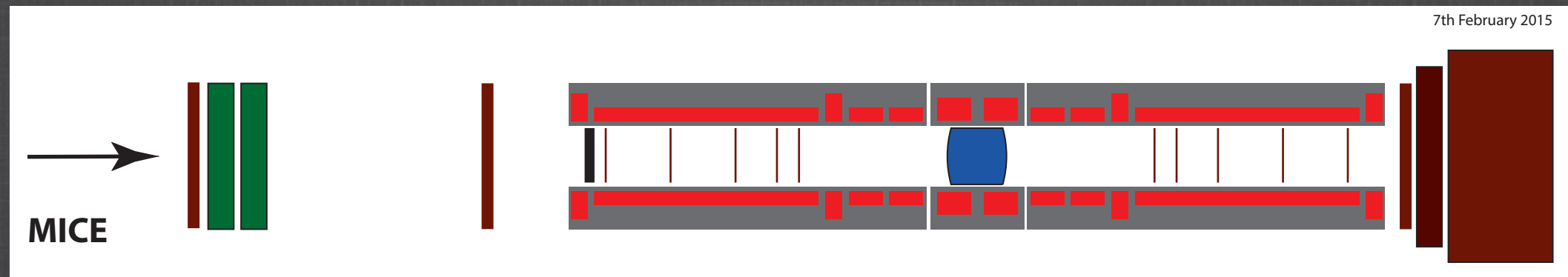
Demonstration of Ionization cooling (DEMO)

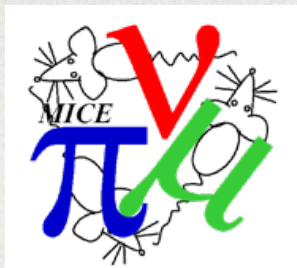


Delivery in 2017.



From Step IV to DEMO





Outline

- Lattice design
- Absorbers
- RF Module
- PRY extension



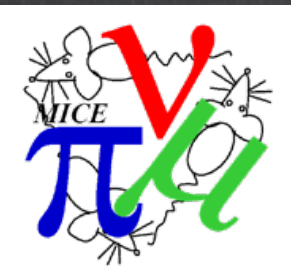
Outline

● Lattice design

● Absorbers

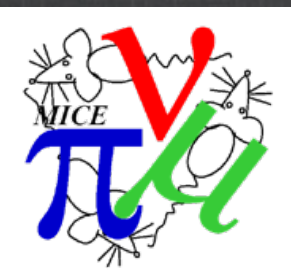
● RF Module

● PRY extension



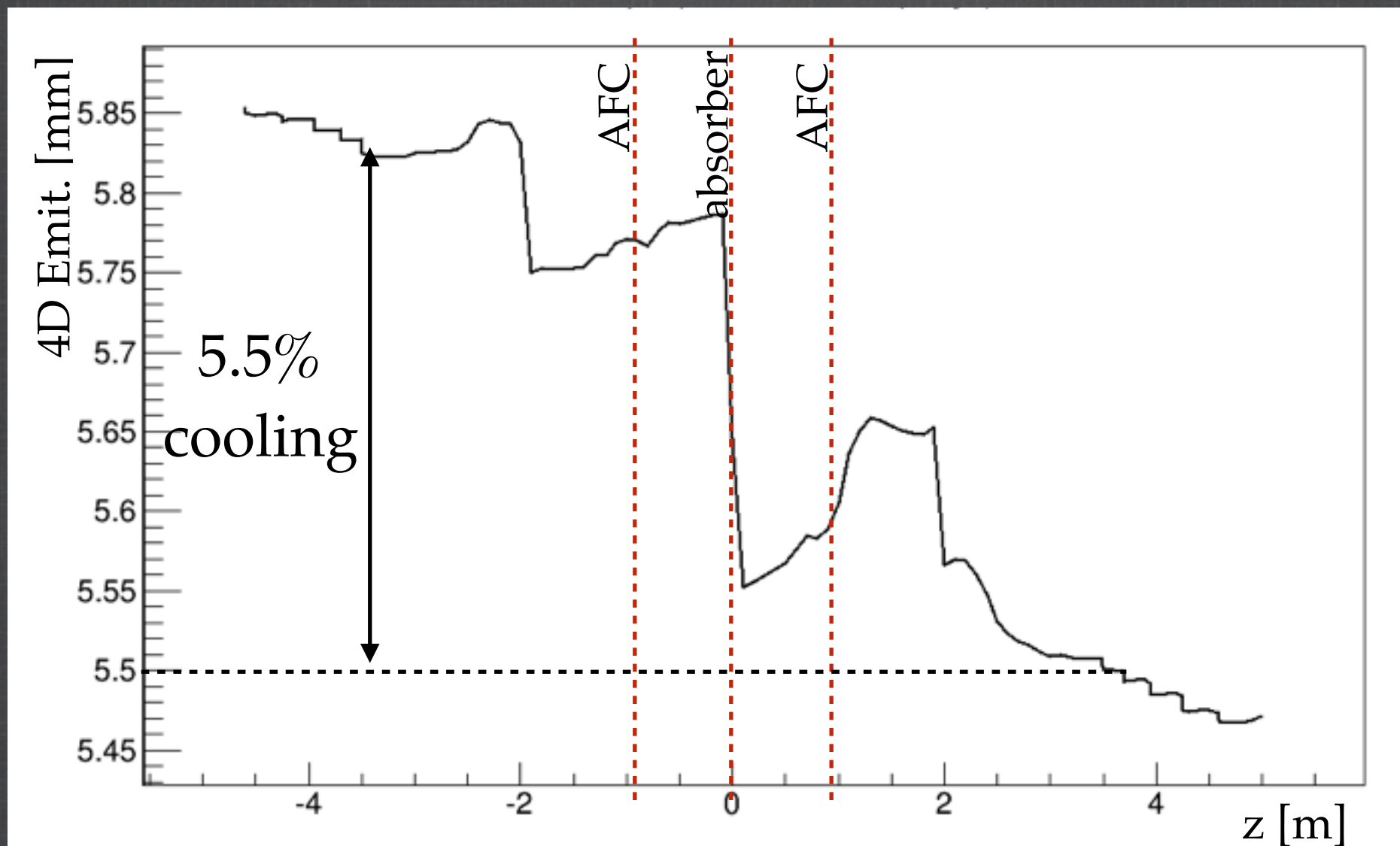
Lattice design

- Lattice almost frozen.
- 5.5% cooling performance.
- Final optimization under way.
- Paper to be submitted soon.



Lattice performance

4D emittance



(J. Lagrange's talk)



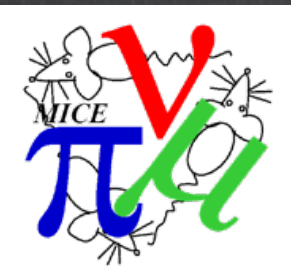
Outline

● Lattice design

● Absorbers

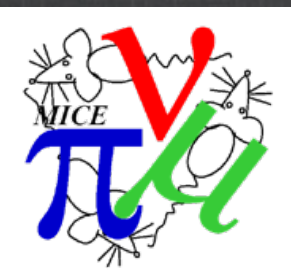
● RF Module

● PRY extension

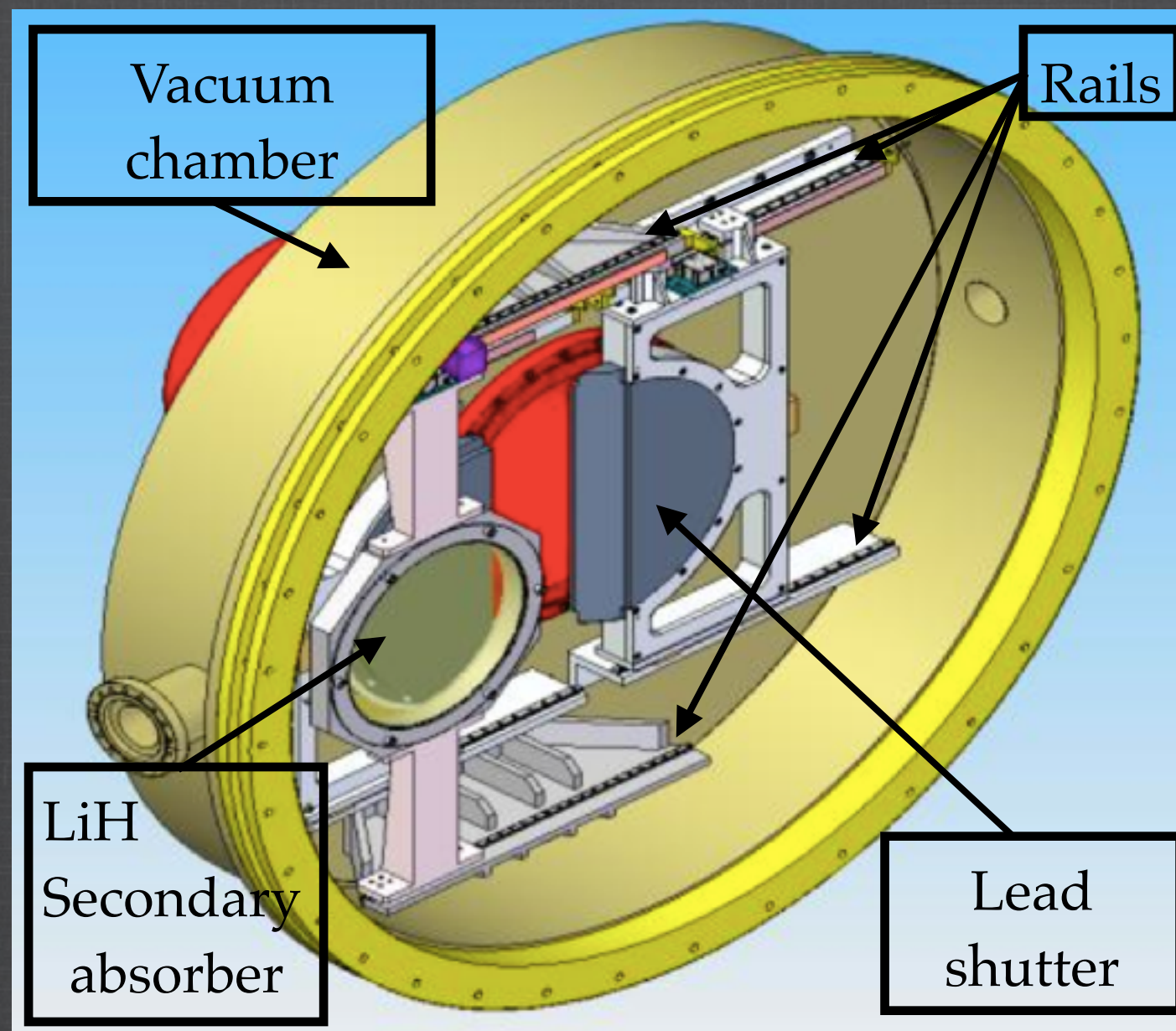


Absorbers

- Primary absorber: LiH (thickness 65 mm).
- Secondary absorbers: LiH (\$140K) or plastic.



Radiation shutter Secondary LiH absorber





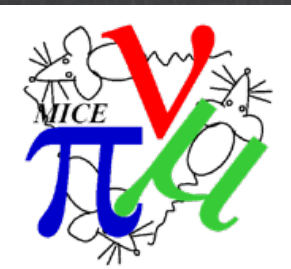
Outline

● Lattice design

● Absorbers

● RF Module

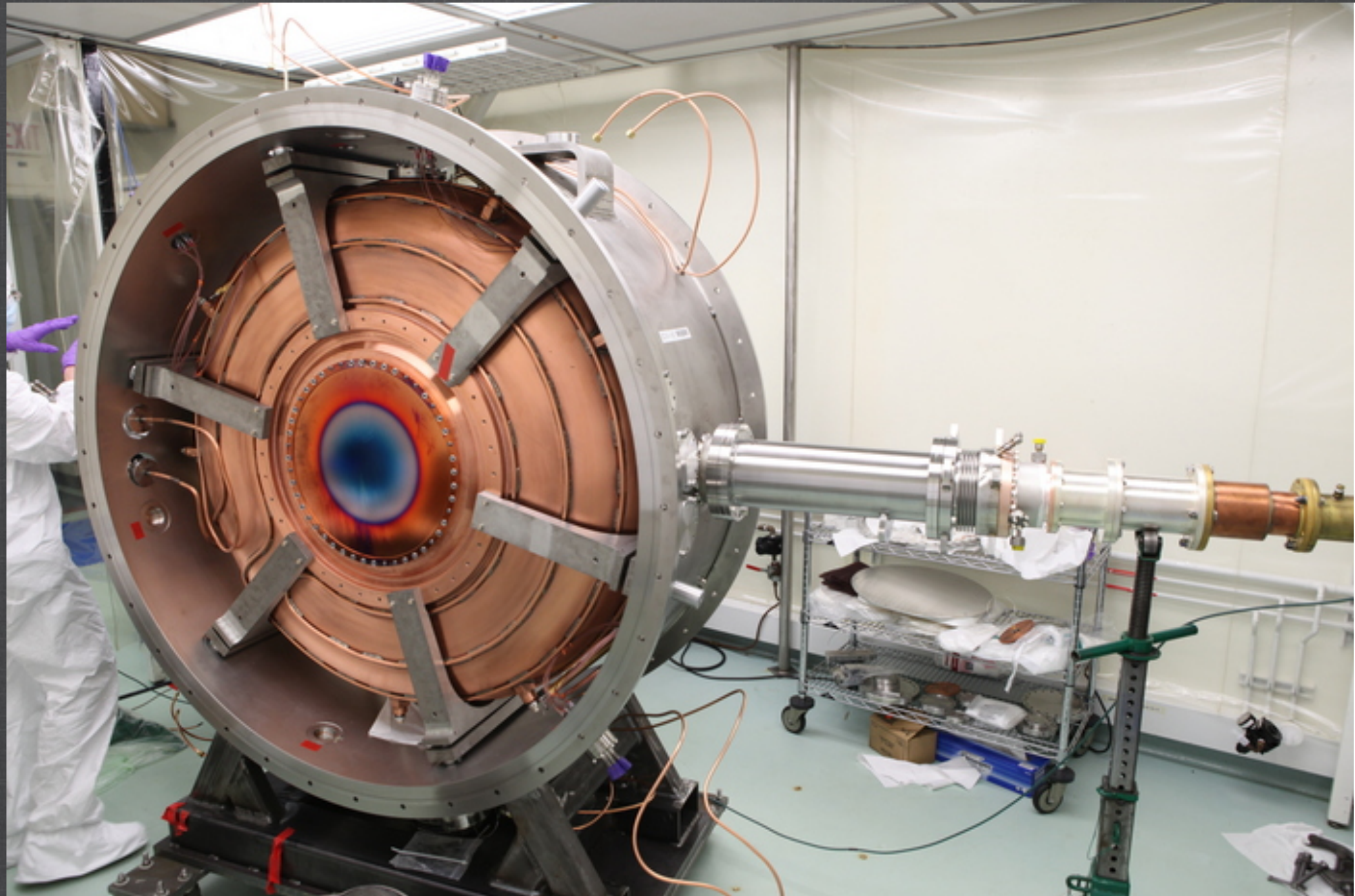
● PRY extension



RF Module

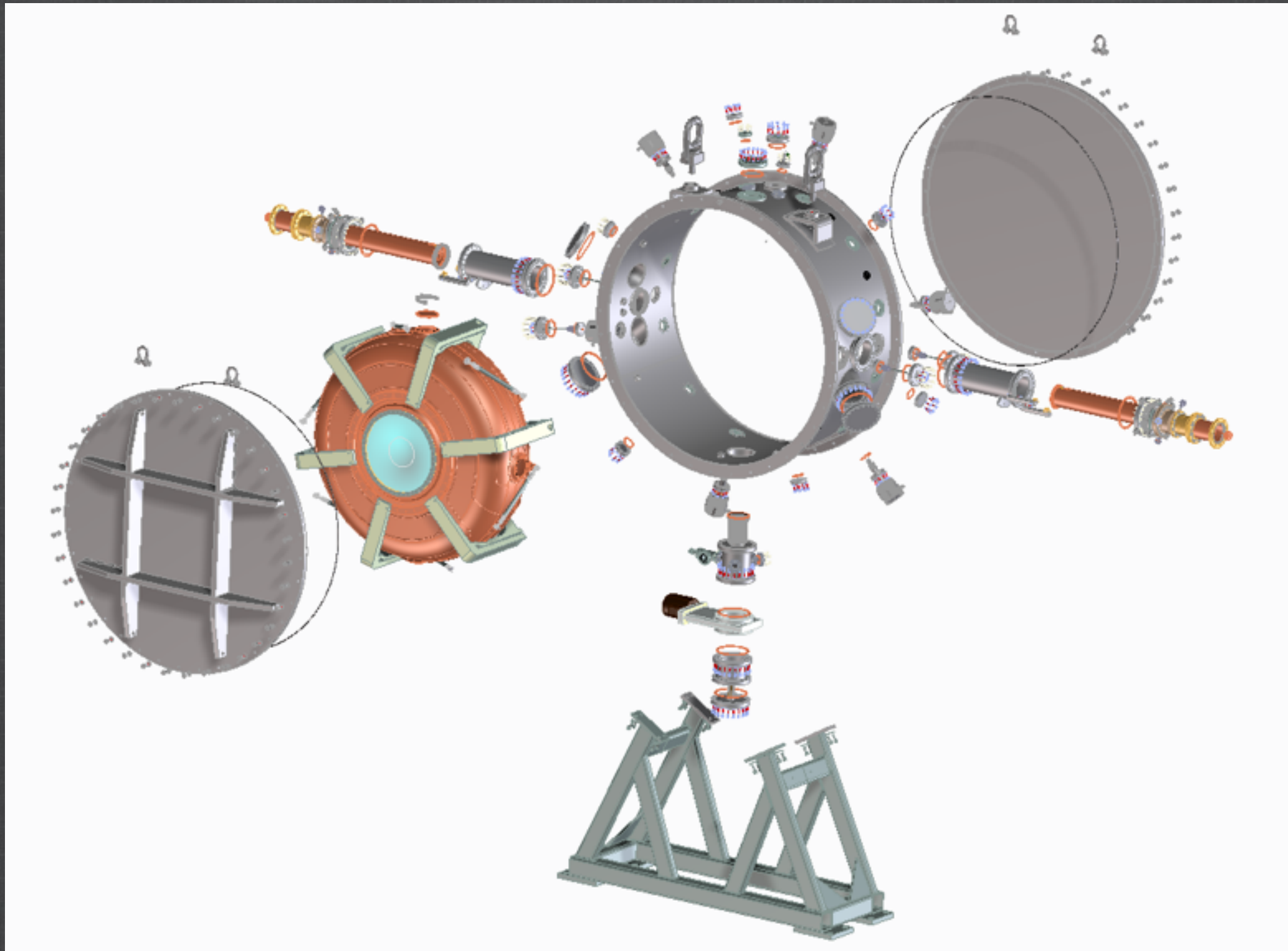
- RF in magnetic field confirmed (No breakdown with Be windows).
- Gradient of 10.3 MV / m confirmed (held at 13.5 MV / m).
- Final design well advanced.

RF Module



(Y. Torun's talk)

RF Module



(D. Lee's talk)



Outline

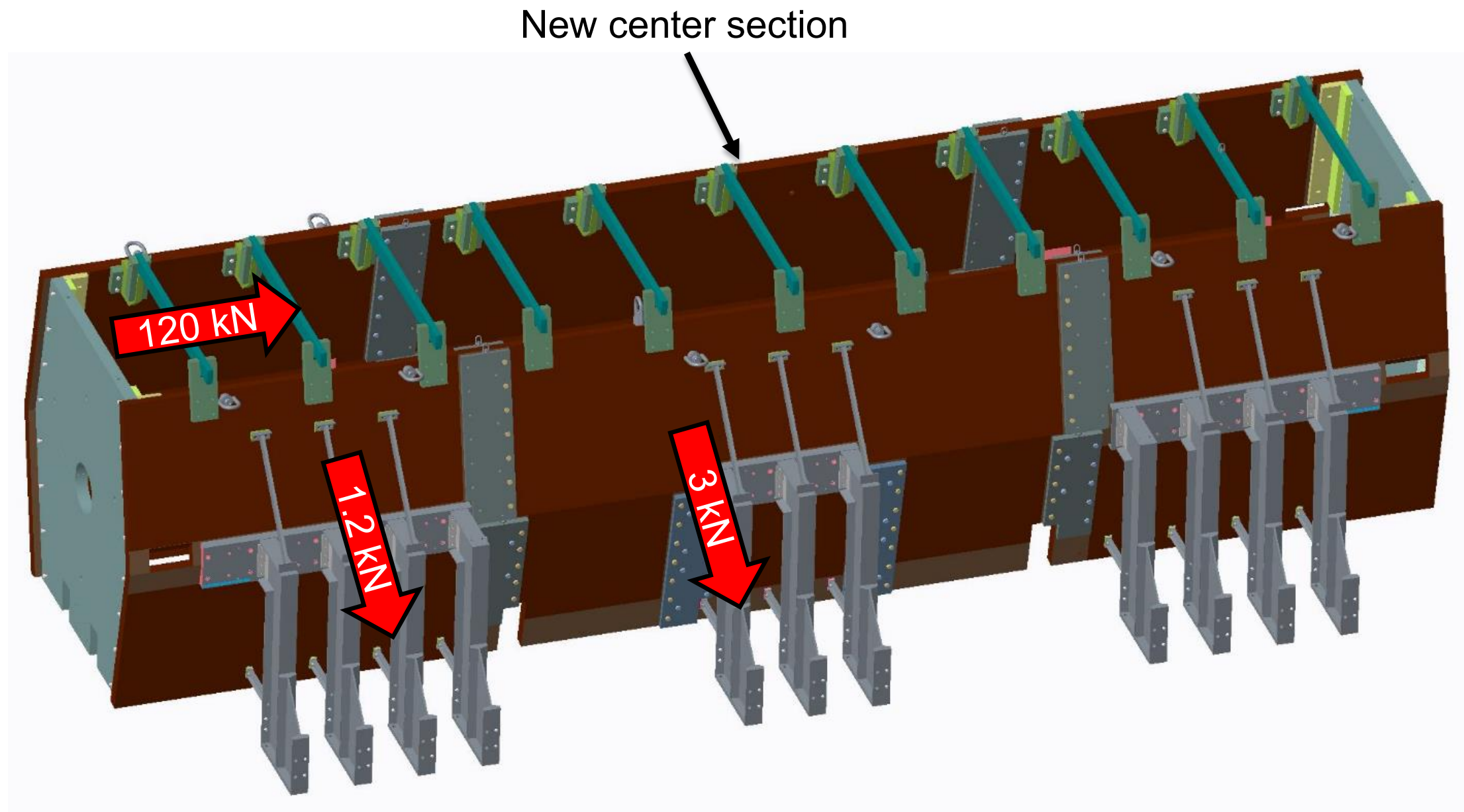
● Lattice design

● Absorbers

● RF Module

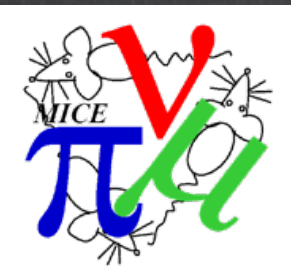
● PRY extension

PRY extension



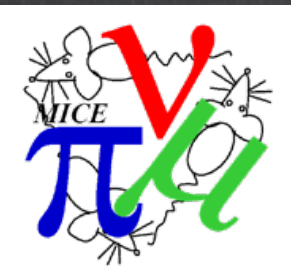
Aim: drawings complete by beginning of June

(H. Witte's talk)



Summary

- A lot of progress achieved.
- Some work remains to be done in the next months.
- Schedule is on track for a delivery in 2017.



Thank you for your attention