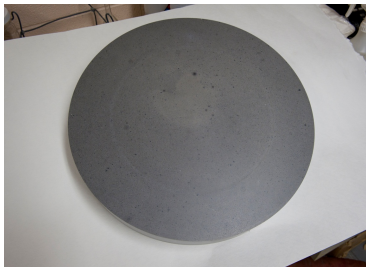


Solid Absorber Status

Pavel Snopok
Illinois Institute of Technology, Chicago, IL
and Fermilab, Batavia, IL

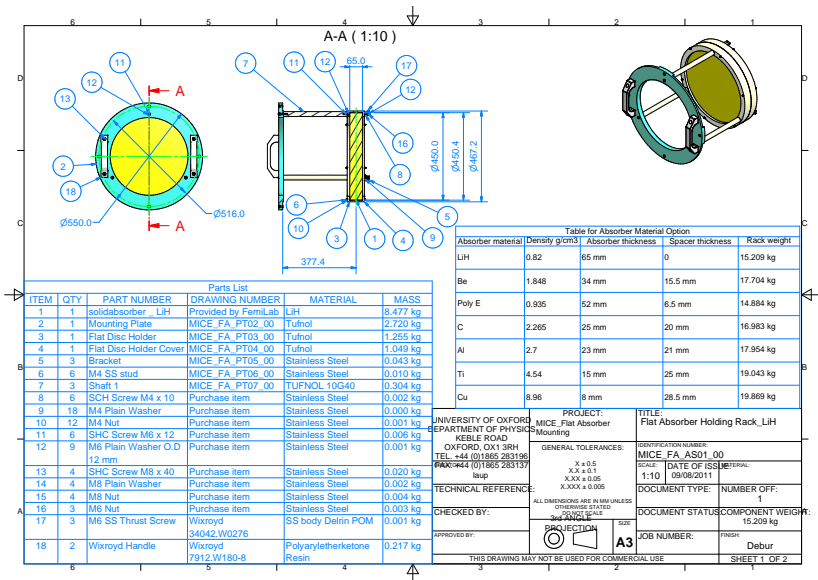


LiH absorber fabrication status

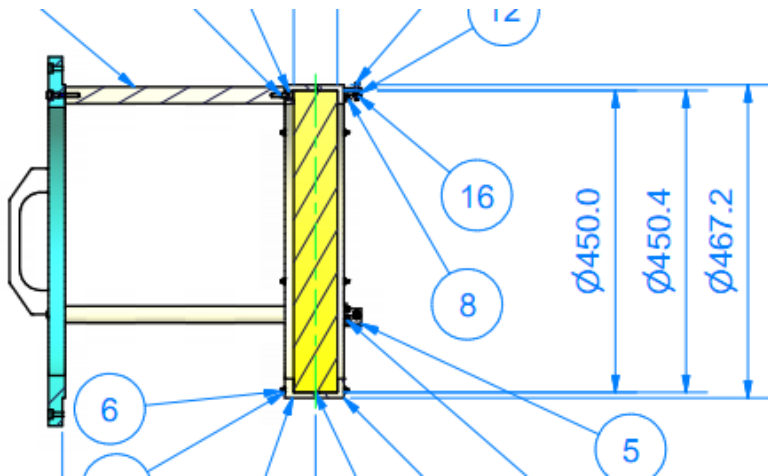


- Flat LiH absorber disk is complete, coated, ready to be shipped.
- There is a change in the Li transportation regulation, Y12 are figuring out how to send the absorber to Fermilab.
- LiH wedge fabrication will take about two more months.
- Solid absorber support structures cannot be produced at Oxford; it has to be RAL or Fermilab.
- Fermilab needs the final version of engineering drawings (signed off).
- Final versions are being prepared (next slides).

Flat LiH absorber support

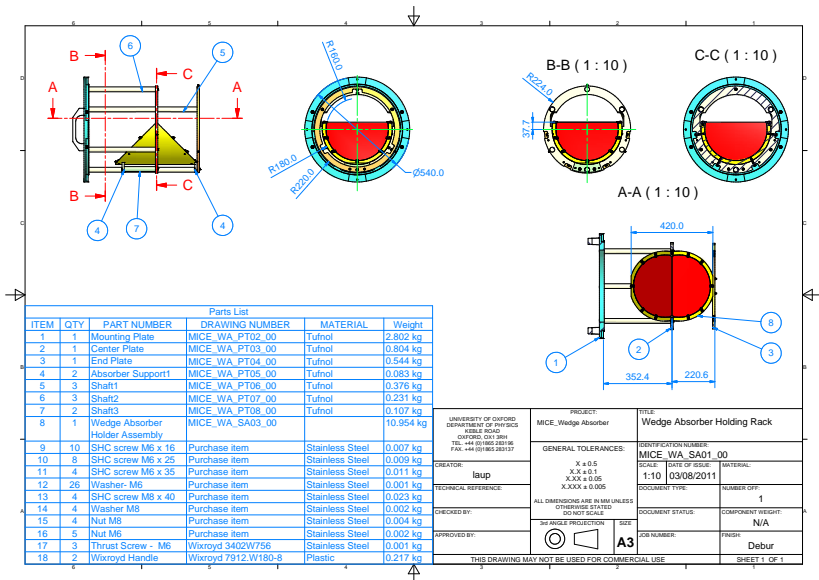


Flat LiH absorber support zoom

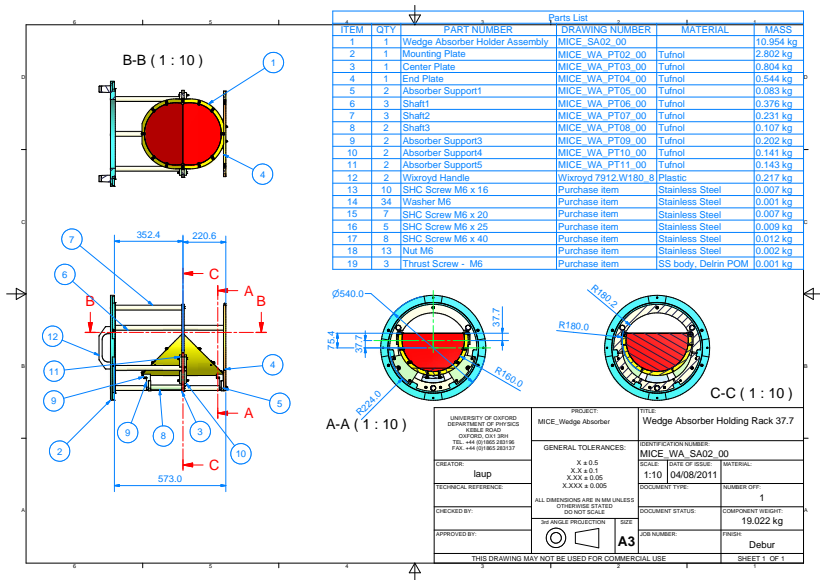


The outer diameter of 467.2 mm is a bit tight within the AFC bore (470 mm), but that cannot be changed since the absorber diameter is 450 mm.

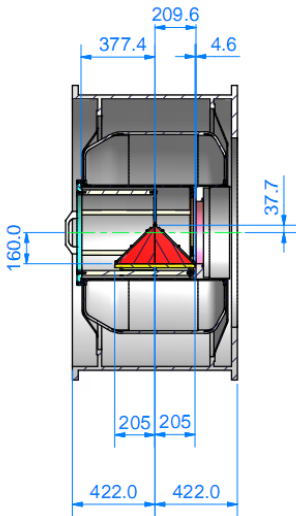
90 degree wedge absorber support



45 degree wedge absorber support

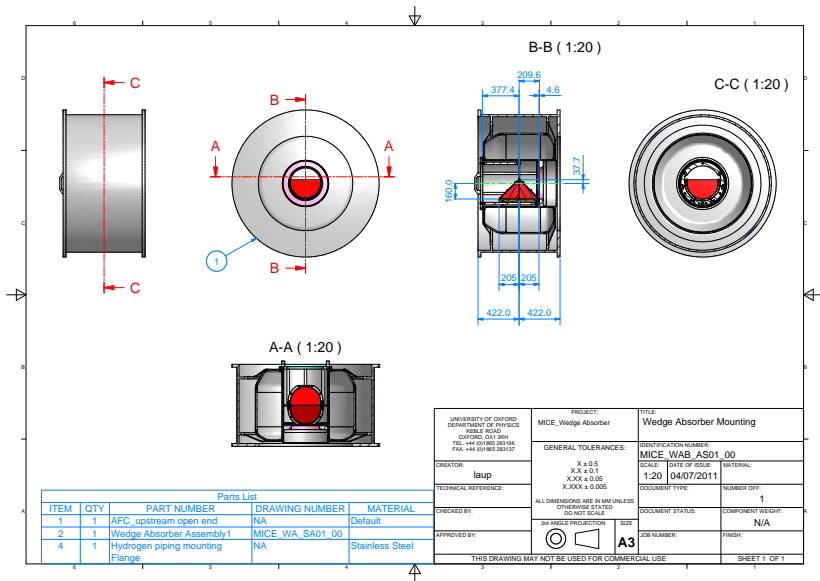


Wedge support issue



- Upon review it was pointed out that the wedge support structure conflicts with the downstream safety window flange.
- Options: move the wedge 25 mm upstream (configuration being simulated), change the design of the support structure, or move the safety window flange 25 mm downstream.
- Peter Lau updated the design, there is no conflict with the downstream flange (209.6 mm?).

Support issue: updated design



- Flat LiH absorber is complete.
- Wedge LiH absorber will take another two months.
- The engineering drawings for the support structures are being finalized:
 - the flat absorber support does not raise any concerns;
 - the wedge absorber support has been redone to address the conflict with the downstream safety window flange.
- Software: wedge geometry is being implemented and simulated in MAUS (Durga Rajaram).
- Analysis: solid absorber efforts should be on the agenda for the analysis meeting.