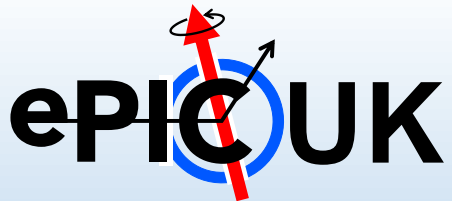
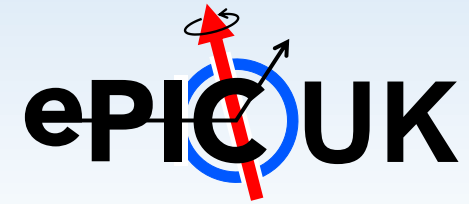


SVT geometry and integration issues

Georg Viehhauser

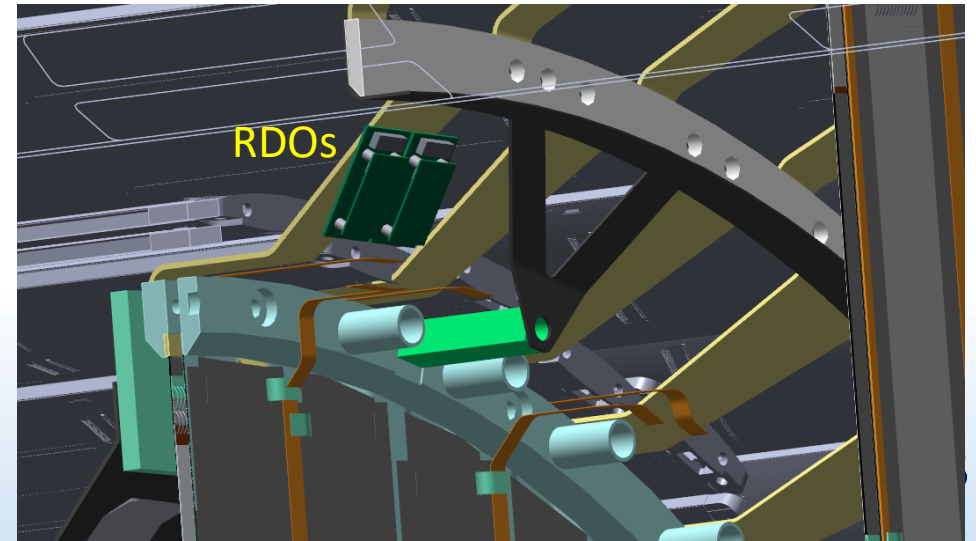
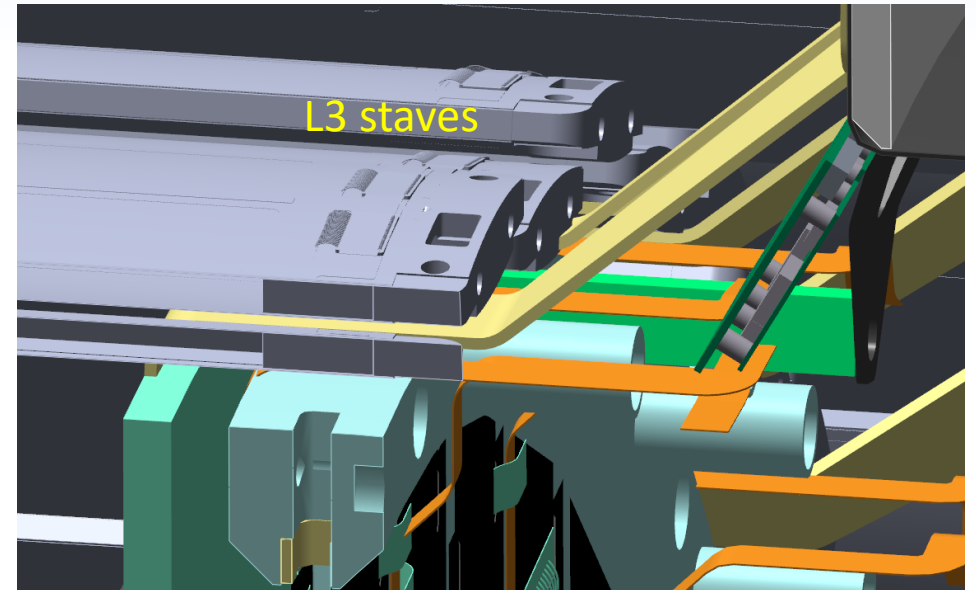
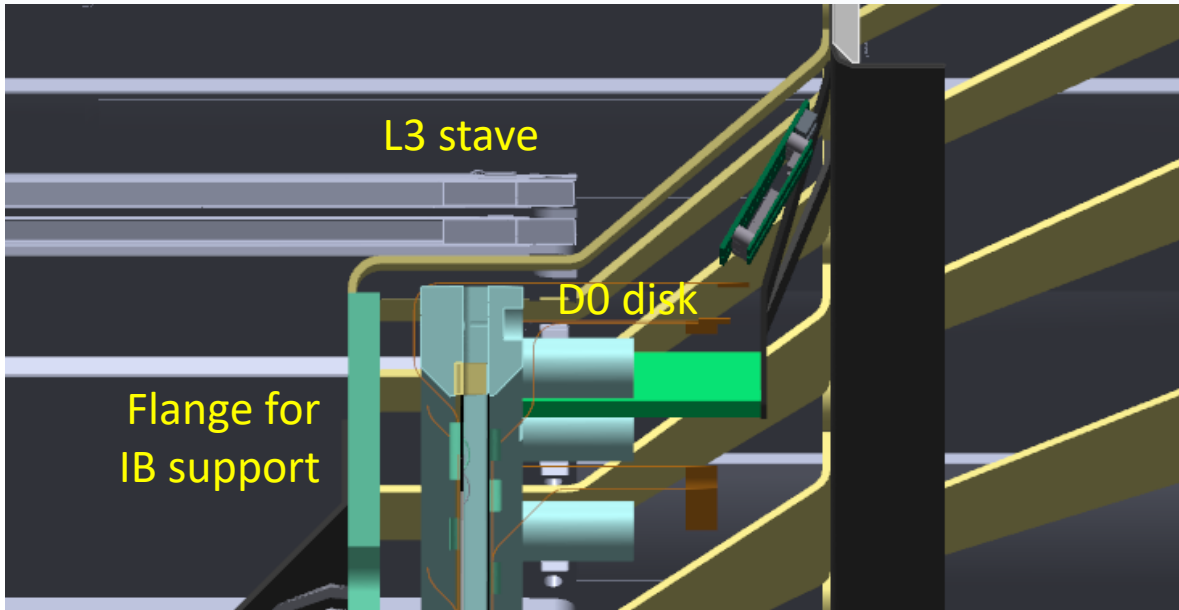


Introduction



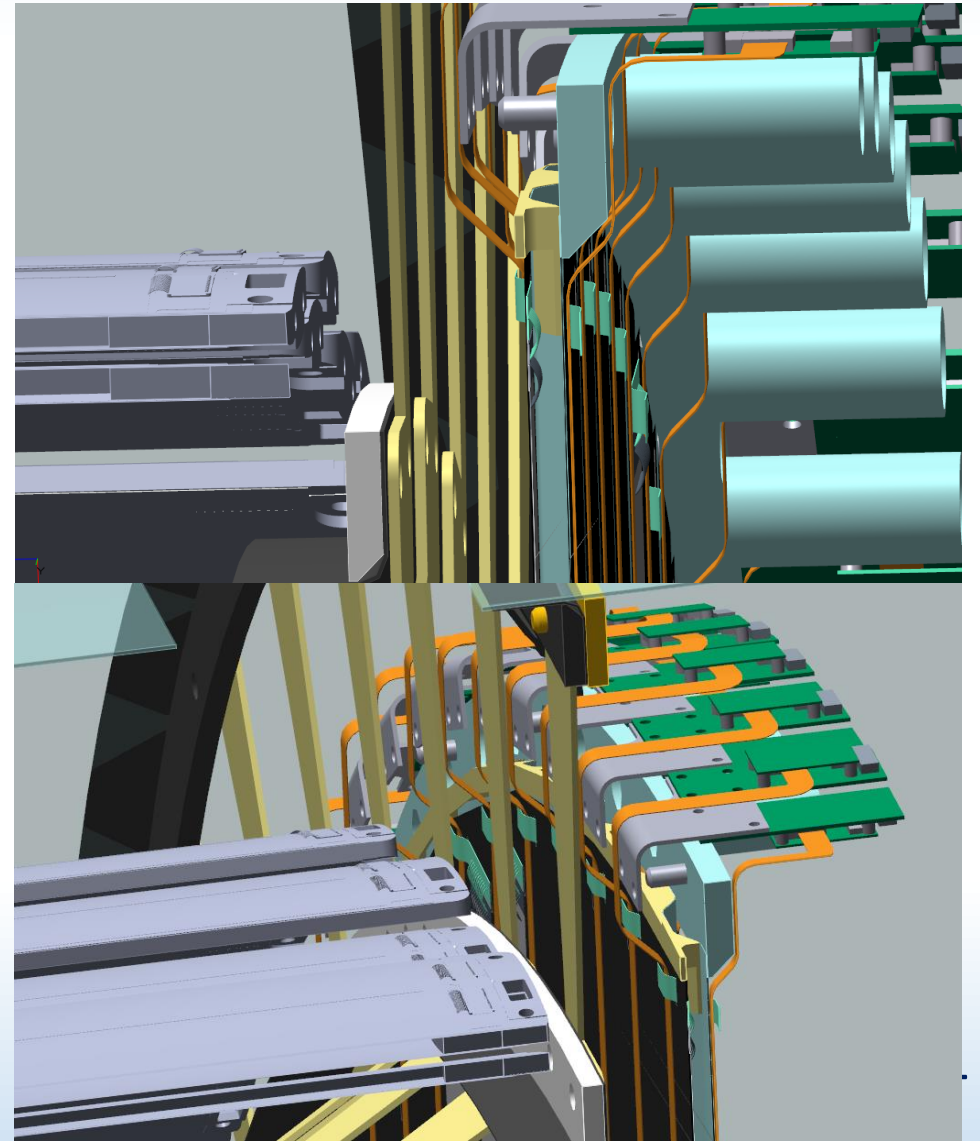
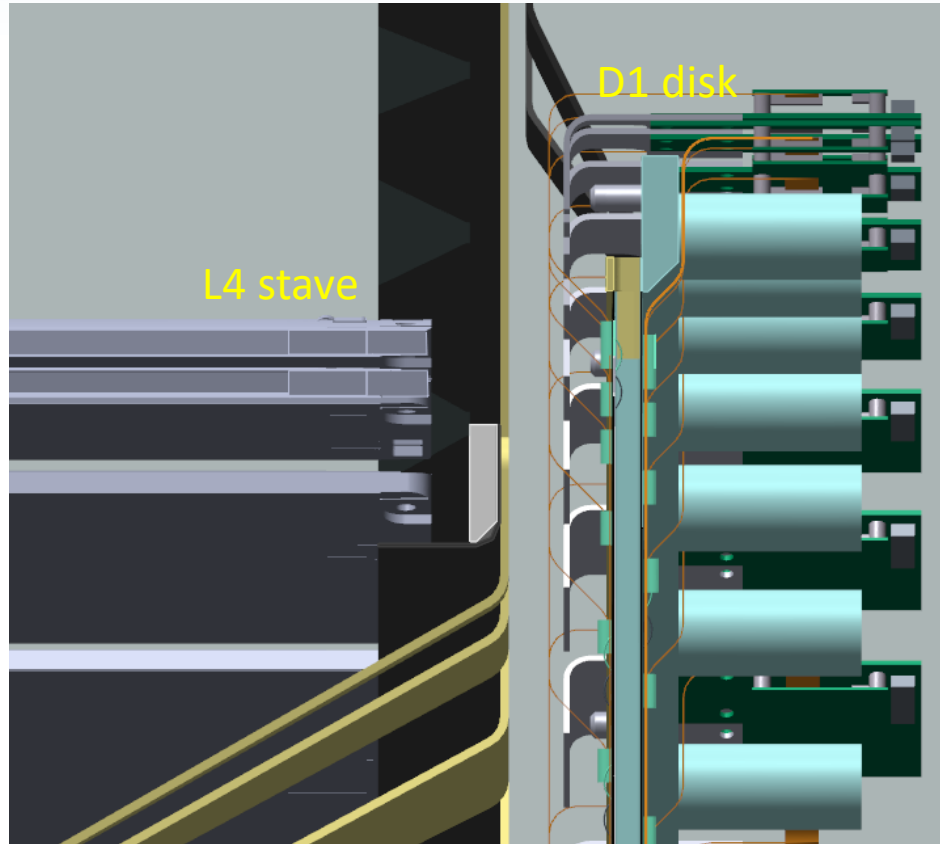
- Jim Curtis (LBNL) has started to import IB and OB geometries into a large SVT model
 - Adam has provided input to this – first indirectly, but now directly
 - Current input cleared with James, so that numbers are consistent
- This model still has a support cone structure made of spokes
 - But I think that LBNL finally got the message that the real challenge is the supply of air, and that once you sorted that, there is no need for much further support structure
 - They will implement this now
- Jim got a little excited about interferences early on, which was not useful, as he got other people excited...
 - Some of those got cleaned up with our updated OB version, and IB service interferences were only caused because the Italians didn't know where their envelopes end
- However, it is clear that the L3 stave end area, where also the first disk ends will be extremely tricky
- L4 appears to look a bit more manageable, although we do not have services in (which will be 4 times as many...)
- This will be the next thing to tackle
 - Eric is now taking this serious enough that we are planning to have bi-weekly meetings on this (haven't heard about a confirmation for this week yet...)

L3



- This stave model has the current end plug (~10 mm)
- Support cones (spokes) not yet optimized
- No detail on stave support and coupling of air channel
- This support cone geometry does not work well for stave installation (would have to fiddle stave to behind the cylindrical section)

L4



- It appears that L4 staves end well before D1
 - Seems to be a comfortable amount of space
- But, no airchannels, FPCs & RDOs in the model yet