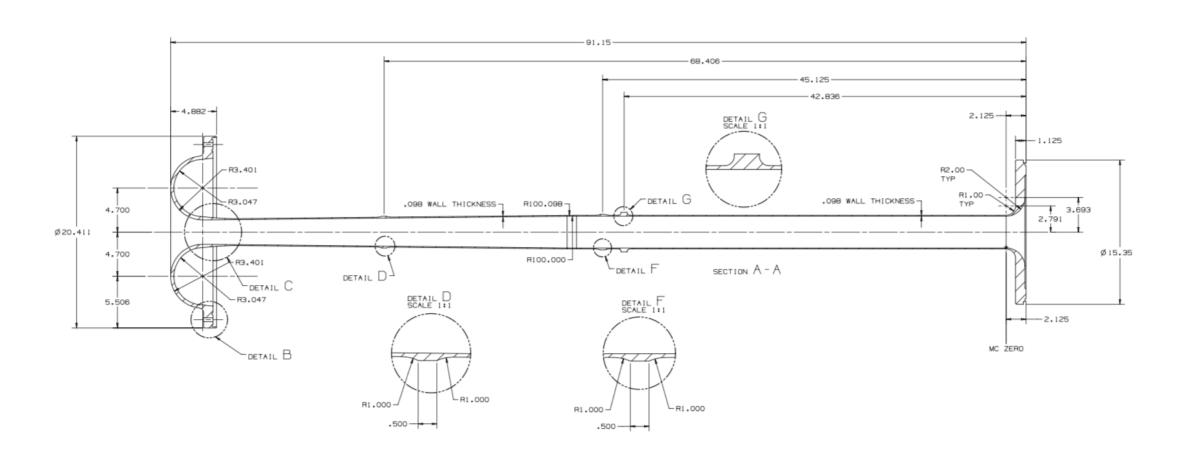
Horn A geometry

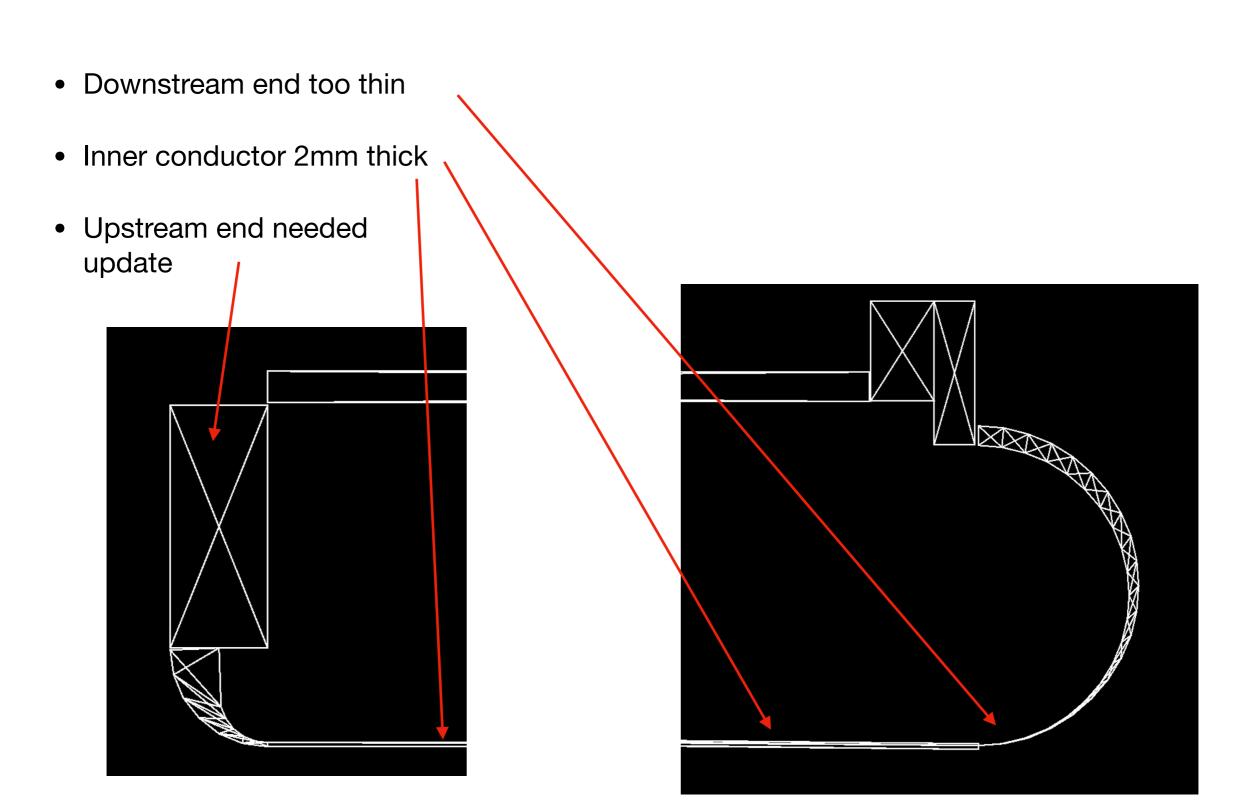
Žarko Pavlović

Geometry update

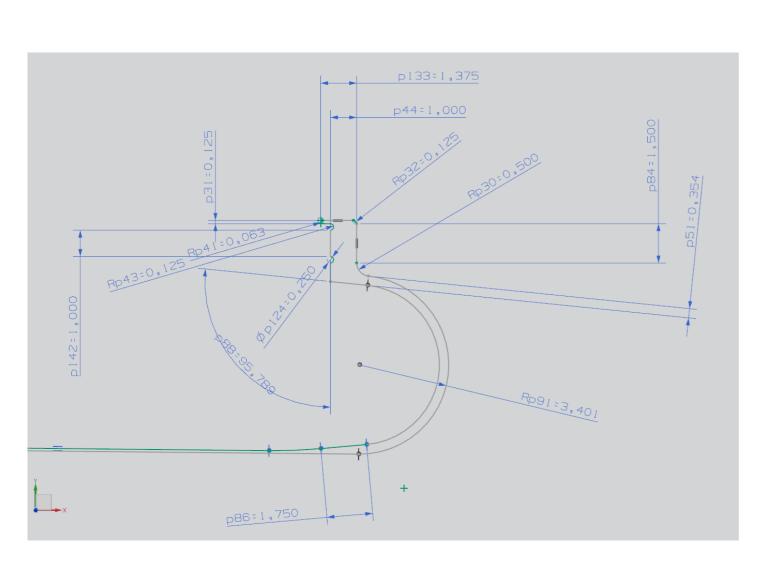
- Cory sent updated horn A drawings
- Downstream end transition from inner to outer made thicker

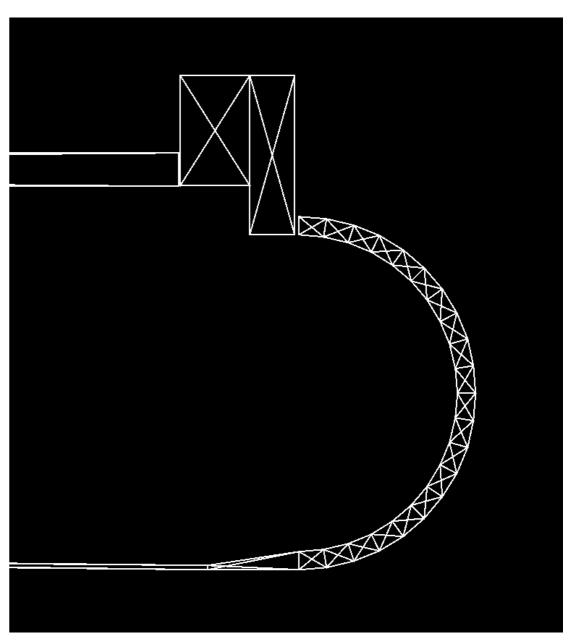


Current geometry

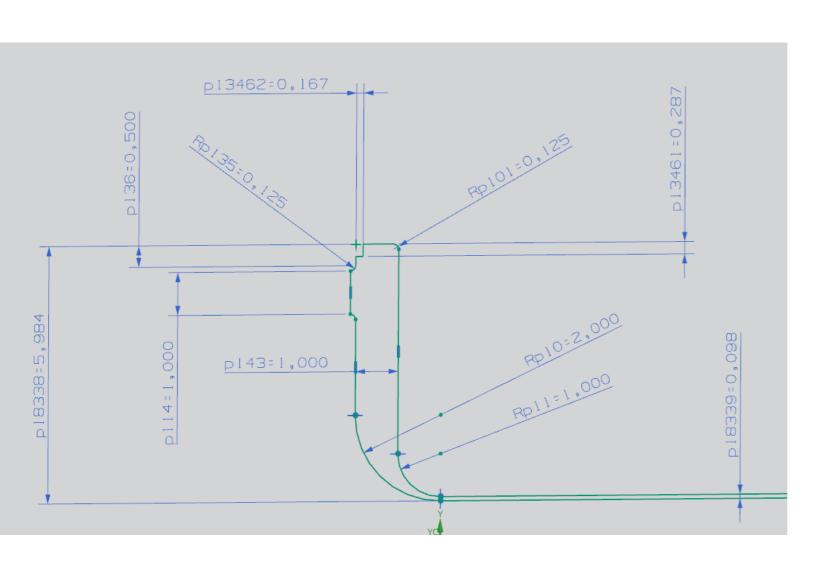


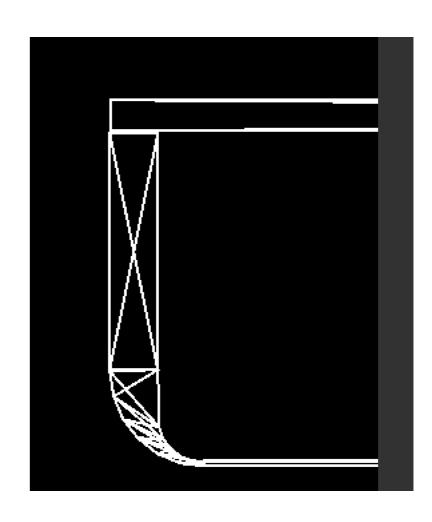
Downstream





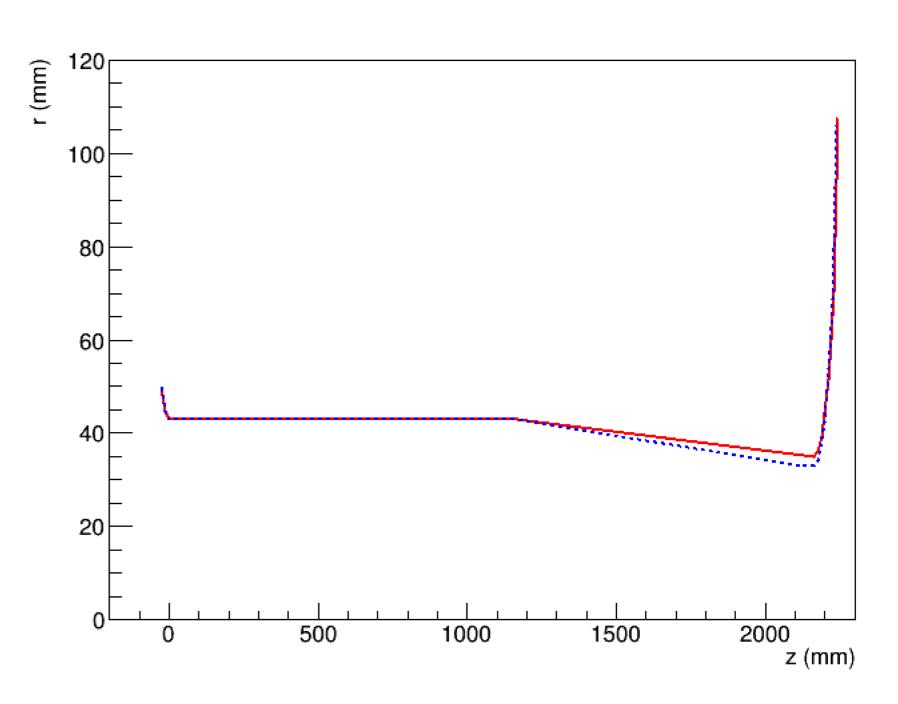
Upstream





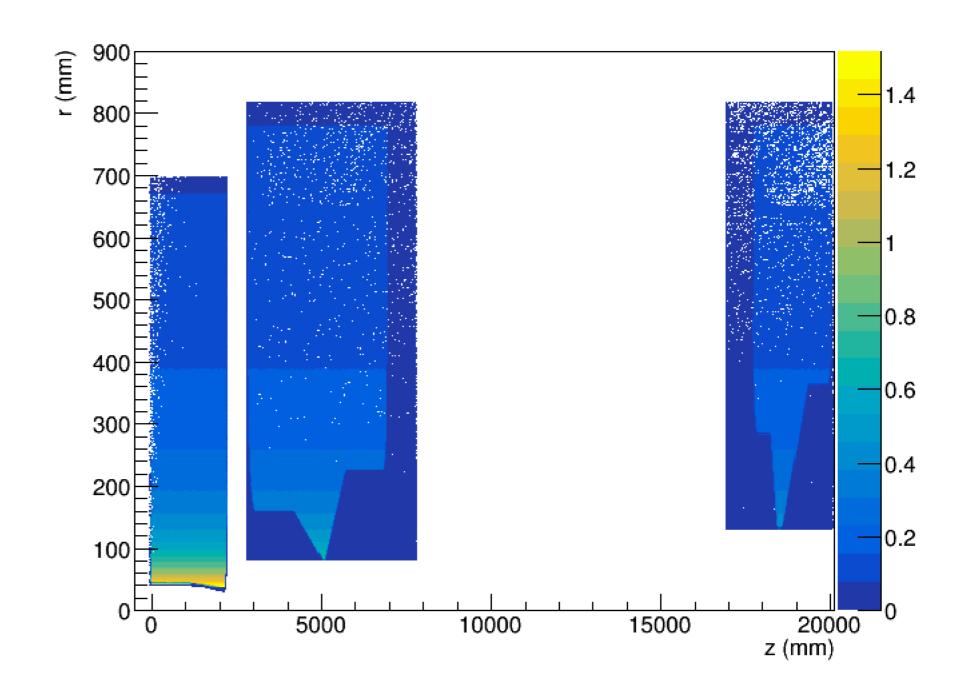
Old vs new

- Geometry used in magnetic field function kept separately
- Checked that magnetic field picks up the changes



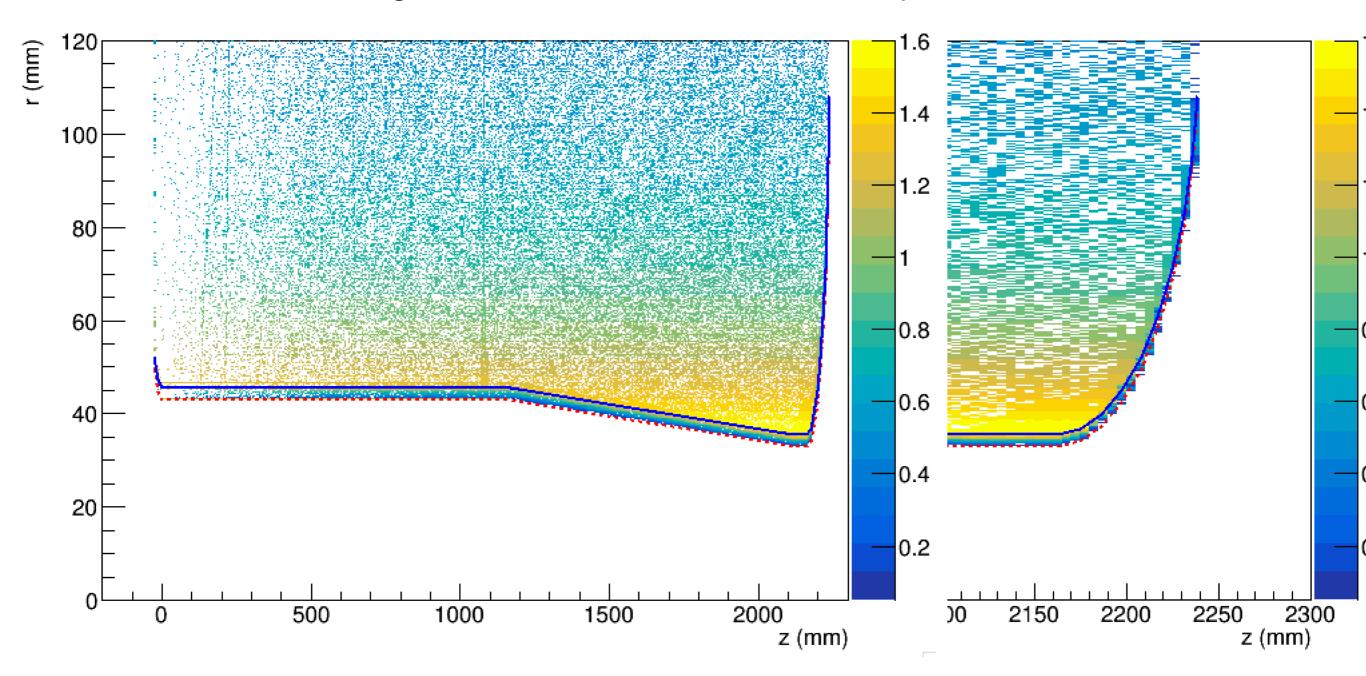
Magnetic field

- Keeps separate geometry information
 - R/Z points for polycone generated during horn geometry construction
- Field in horn A goes up to 670mm

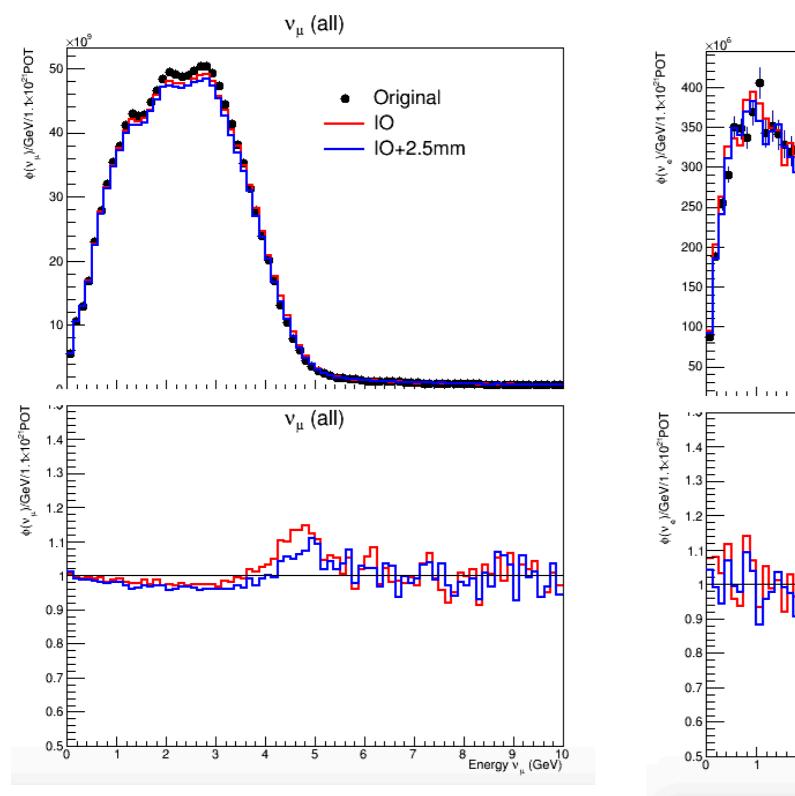


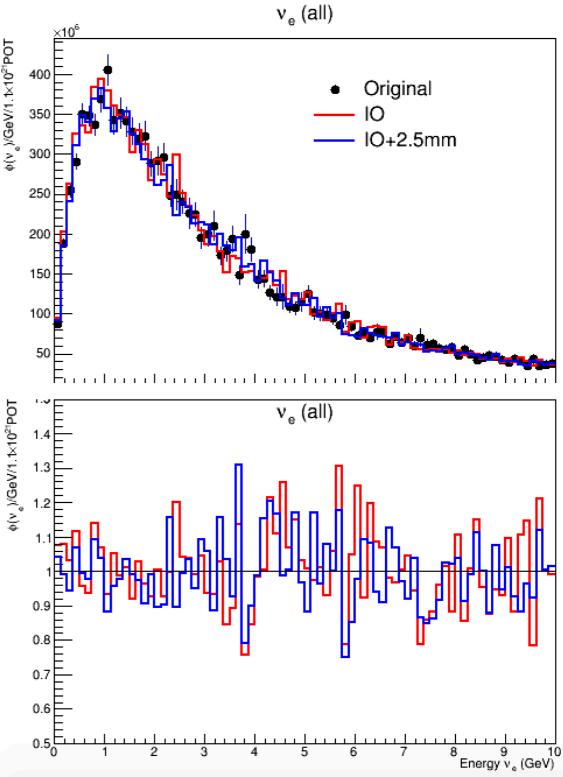
Horn A

Checked that magnetic field and new conductor shape consistent



Neutrino flux





Conclusion

- Implemented changes in horn A geometry
 - Thicker downstream transition from inner to outer conductor
 - Fixed upstream end
 - Changed inner conductor thickness from 2mm to 2.5mm
- Few more things to fix