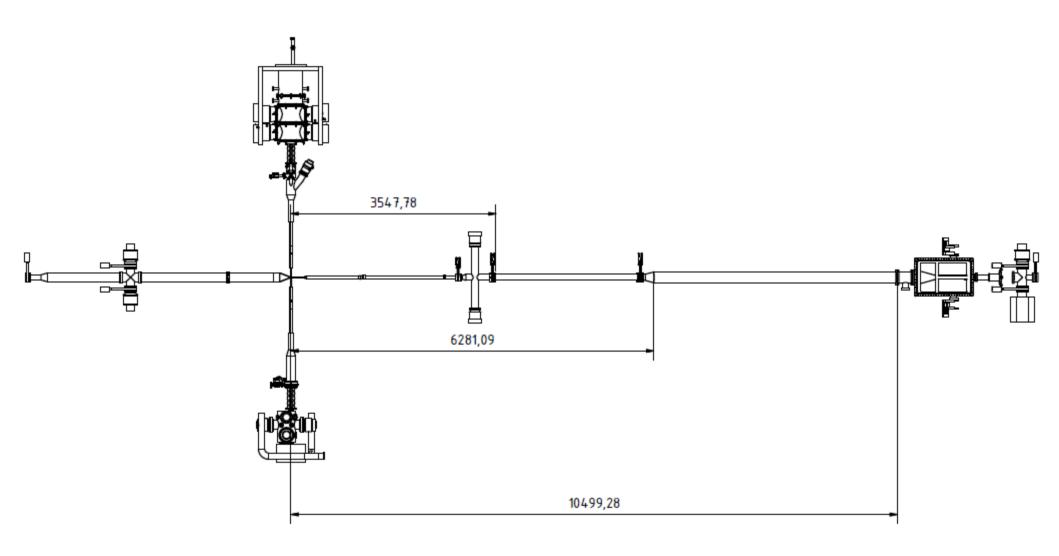




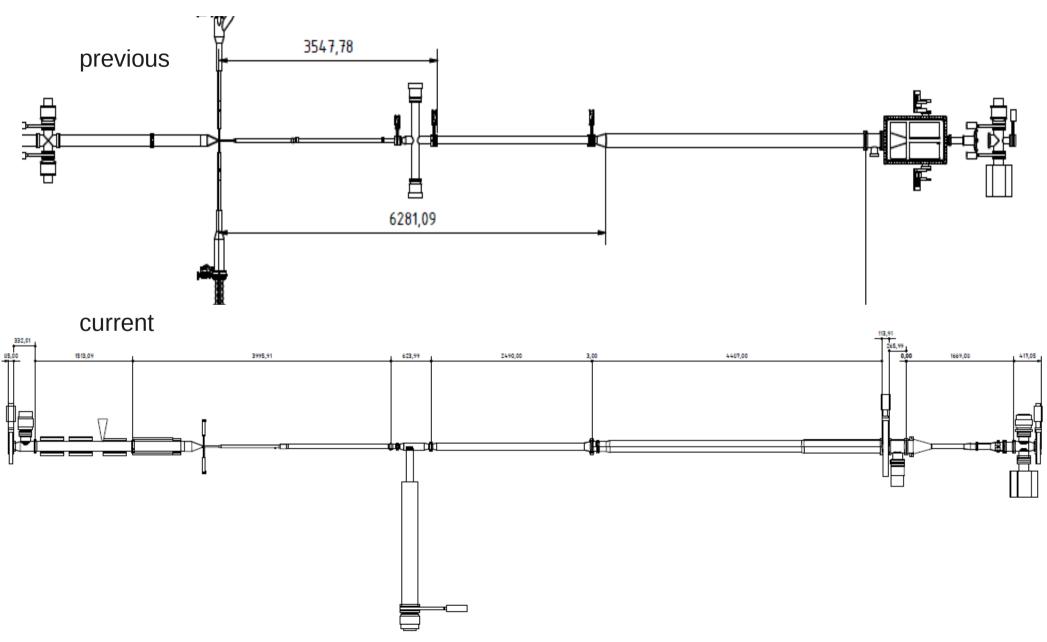


Helmholtz-Institut Mainz

The PANDA beam pipe until now

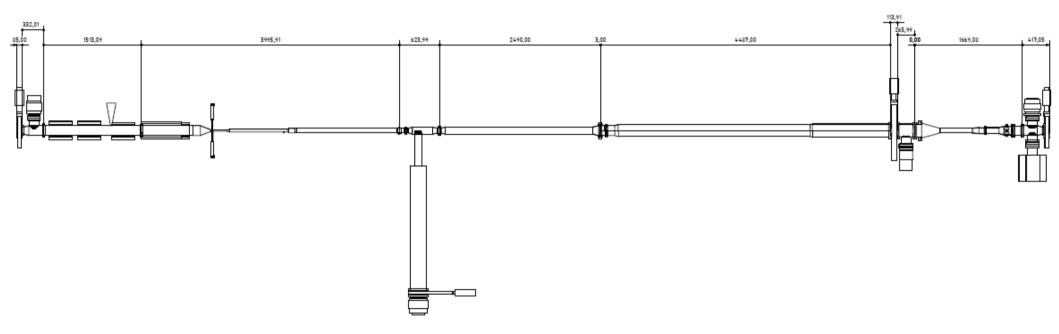


The PANDA beam pipe v1403 by Jost Lühning

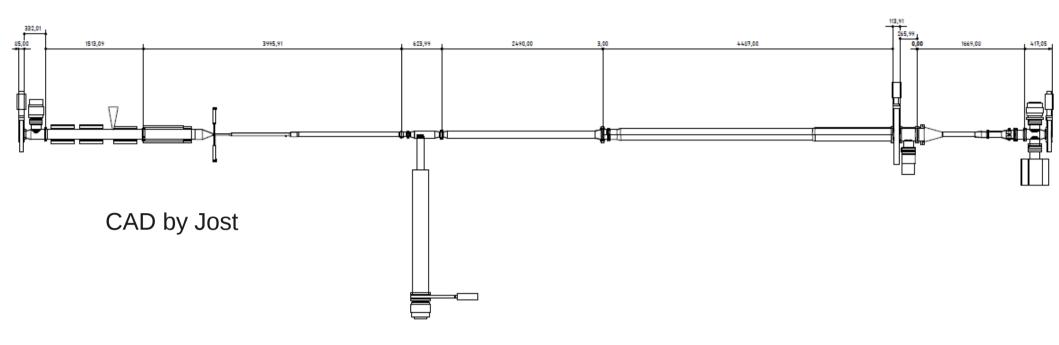


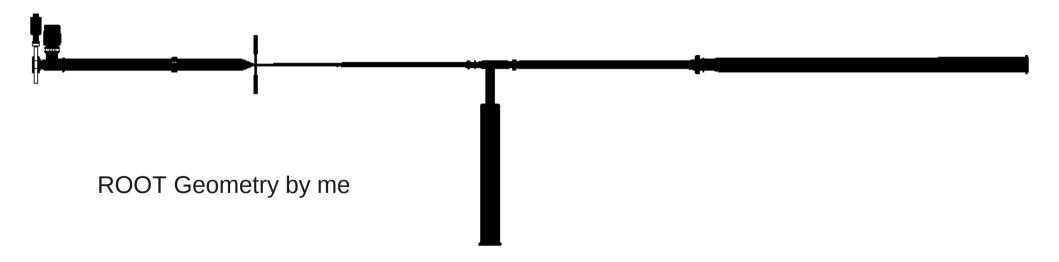
10.12.14

The PANDA beam pipe v1403 by Jost Lühning



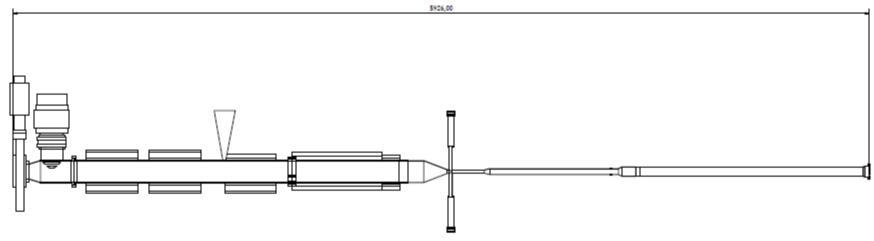
The PANDA beam pipe in panda root (by me)

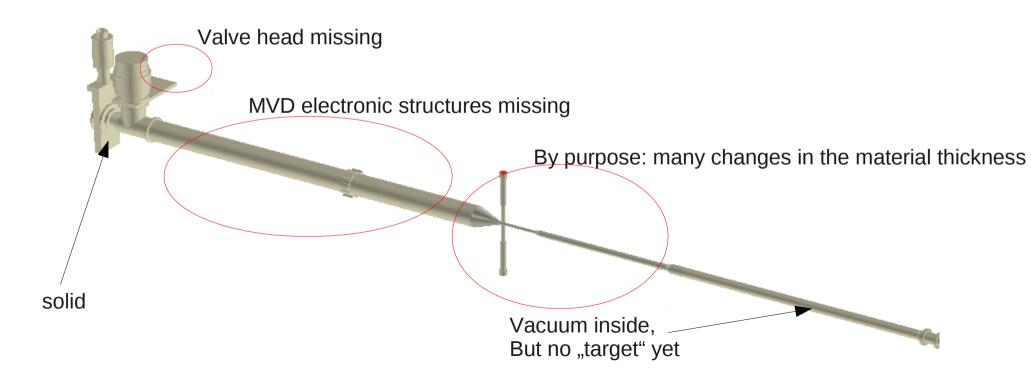




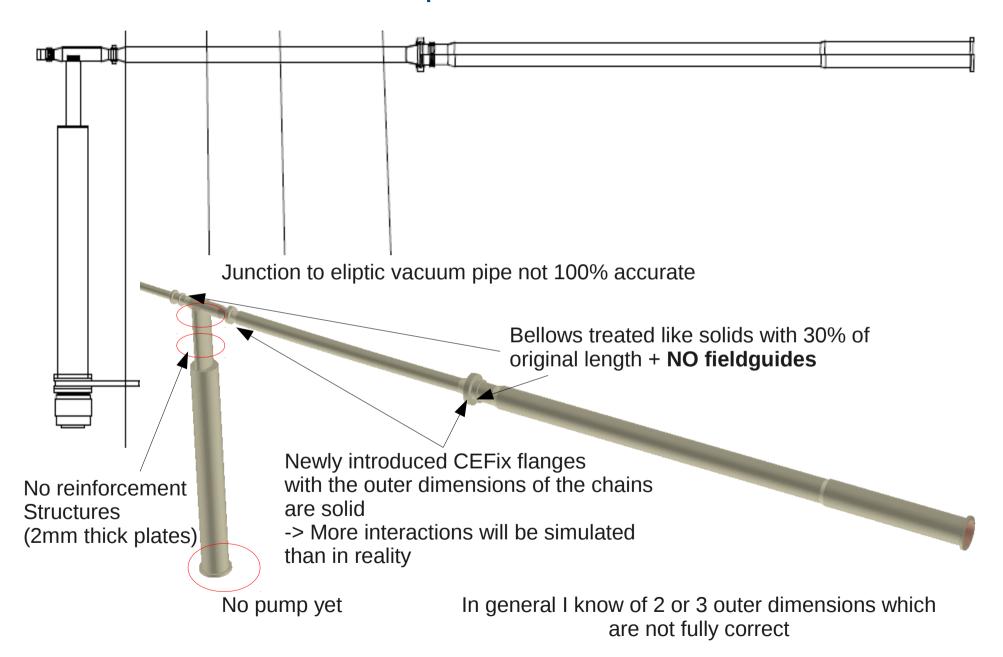
Some details

Solenoid section

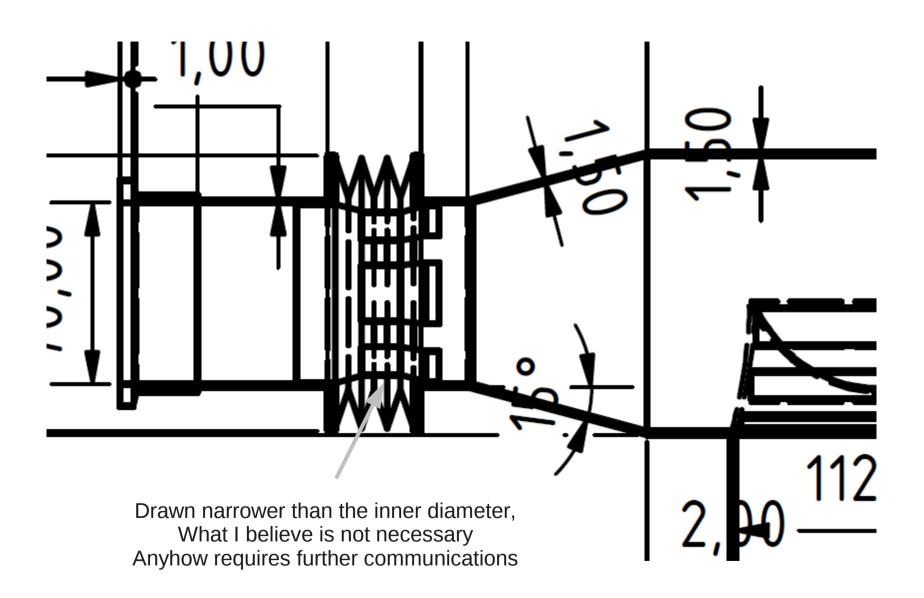




Dipole section



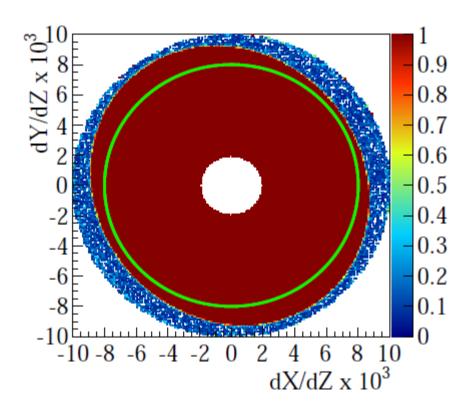
Fieldguides



The beam pipe acceptance

- 1.5 GeV/c beam momentum at 1T solenoid field strength
- 2-10 mrad antiprotons at z = -35.3 cm -> $r \sim 2.8$ mm at z = 0
- vacuum in cave

angular acceptance at z = 1050 cm



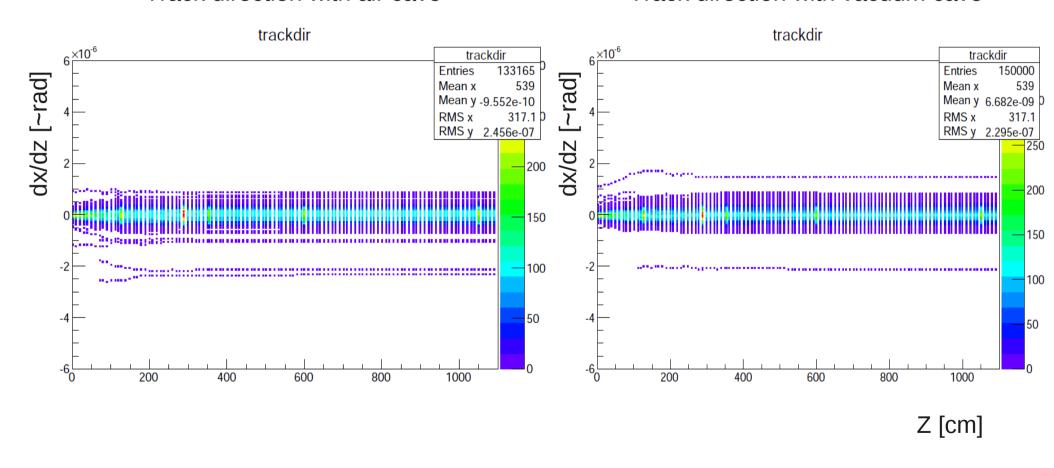
Acceptance loss again in the region of the dipole between 5m and 6 m behind the Interaction point -> design seems to be ok

I committed the file beampipe_201407.root in pandaroot already

Beam tightness checks

Track direction with air cave

Track direction with vacuum cave



To do

Check the influence of field guides