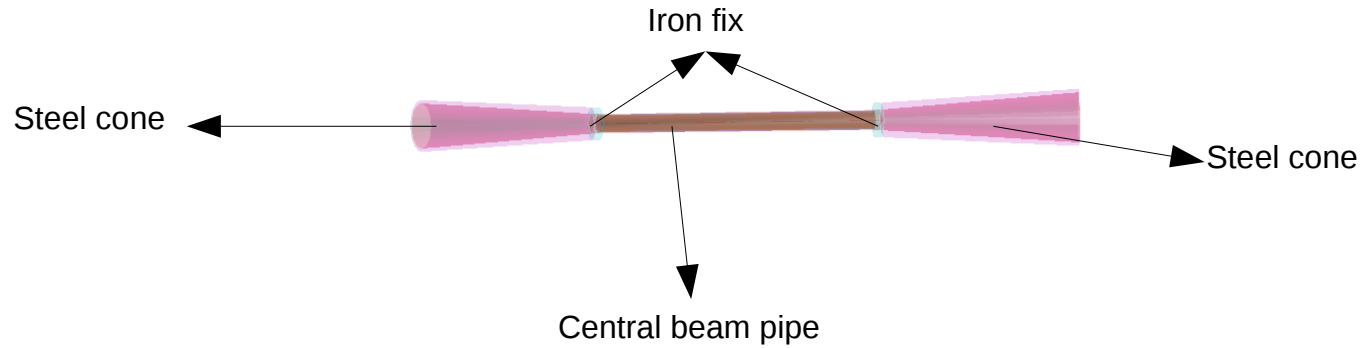


Status of inner tracking simulation

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Beam pipe



name	r_min	r_max	Z-length	material	r_min2	r_max2	z_plane
Central beam pipe	11.5mm	13.0mm	210.0mm	Beryllium	-	-	-
Beam pipe coating	13.0mm	14.0mm	210.0mm	Paraffin	-	-	-
Outer beam pipe	14.0mm	15.0mm	210.0mm	Beryllium	-	-	-
Iron fix	15 mm	25 mm	5.0 mm	Steel 235	-	-	-
Steel cones	15.0 mm	25.0 mm	223.0 mm	35.0 mm	40.0 mm	500.0 mm	Steel2 35

Geometry parameters of Time Projection Chamber

<i>name</i>	<i>r_min</i>	<i>r_max</i>	<i>z_length</i>	<i>material</i>
Inner tube 1	40.0 mm	45.0 mm	400.0 mm	G10
Inner tube2	45.0 mm	45.005 mm	400.0 mm	Copper
Ar-CO2	45.005 mm	398.0 mm	400.0 mm	Ar-CO2
Outer tube1	398.0 mm	400.0 mm	400.0 mm	G10
Outer tube2	397.995 mm	398.0 mm	400.0 mm	Copper
Cathode plane	0.0 mm	398.0 mm	0.05 mm	SteelMesh
Kapton disk	48.005 mm	398.0 mm	0.15 mm	Kapton
G10 disk	48.005 mm	398.0 mm	0.15 mm	G10

- The Argon- Carbon dioxide is in ratio 70:30
- Ar-CO2 cylinder is sensitive.
- Geometry of TPC is successfully finished.

Straw Tube Tracker

- Straw tube tracker geometry construction is on process and expected to finish within few days.
- Following parameters are selected for straw tube geometry.

Name	radius	z-length	material
Anode	0.01 mm	600.0 mm	Tungsten
gas	4.97 mm	600.0 mm	Ar-CO2
Straw tube material	0.2 mm	600.0 mm	Mylar

- Straw tube layers are arranged in hexagonal shape.
- Ar-CO2 is in ratio 70:30

The geometries of TPC and STT are available in SCTauFW package