

FLUKA Beginner's Course

Aim of the exercise:

- 1- Edit geometry
- 2- Debug using Flair
- 3- Debug via GEOEND card

Copy the input file from the example_running in a new local directory:

mkdir ex_Geometry1 ;
cp pathtoUSB/Examples/example_running/example_running.inp ex_Geometry1/ex_Geometry1.inp ;
cd ex_Geometry1

Open the file ex_Geometry1.inp with FLAIR (flair ex_Geometry1) to edit the input file and...

- □ Replace the finite cylinder with an infinite one
- use a ZCC body for the cylinder
- use two XYP planes, at z=0 "Ztlow". and z=10.cm "ZThigh", to cut it
- re-define the regions TARGET and VOID
- □ Look at the new geometry using the Geometry Editor

- □ Segment the target in 3 parts by two transverse cuts
- Define 3 target regions
- □ Assign new materials to the targets
- □ Set surrounding medium to CO2 (density = 0.001965 g/cm^3)

From	То	Region	Material	Tip
z=0.	z=1.	TARGS1	Water	new XYP needed "T1seg"
z=1.	<i>z=2.</i>	TARGS2	Aluminur	n new XYP needed "T2seg"
<i>z=2.</i>	z=10. TARC	GS3 Lead	1	no more bodies needed
Air, Water, Aluminum, and Lead are predefined materials				

