

FLUKA Beginner's Course

Aim of the exercise:

- 1- Get familiar with the Geometry Editor
- 2- Edit geometry using the Geometry Editor
- 3- Use of different layers of Geometry Editor

- Using Flair create the ex5 directory
- Start a new project based on the empty input template
- Try to reproduce the same geometry of exercise 4
 using ONLY the Geometry Editor
- Play with the different views and layers

- \square One infinite ZCC cylinder. Radius = 5 cm , center in x=0, y=0
- Four XYP planes
- Surrounding medium CO2
- Three target regions

From	To	Region	Material
z=0.	z=1.	TARGS1	Water
z=1.	z=2.	TARGS2	Aluminum
z=2.	z=10.	TARGS3	Lead

Water, Aluminum, and Lead are predefined materials

- Add also a BEAM card as in ex3 (will be useful later):
 - Origin (x,y,z) = (0.0, 0.0, -0.1)
 - Directed toward positive z
 - Pencil proton beam
 - Kinetic energy E=3.5 GeV
 - Momentum Gaussian spread ∆p= 0.8 GeV/c
 - Divergence Gaussian $\Delta \phi = 1.7$ mrad