

Exercise 4: Geometry

Beginners' FLUKA Course

Exercise: Geometry

- Download the solution of ex2.inp from the website into a new
 ex4 directory and rename it to ex4.inp
- Open it using FLAIR
- Replace the finite cylinder with an infinite one

use a ZCC body for the cylinder

use two XYP planes, at z=0. and z=10.cm, to cut it

re-define the regions TARGET and VOID

Run

Exercise: Geometry

Segment the target into three pieces by two transverse cuts 1st segment: from z=0. to z=1.cm (new XYP needed)

2nd segment: from z=1.cm to z=2.cm (new XYP needed)

3rd segment: from z=2.cm to z=10.cm (no further bodies needed)

define the 3 target regions

assign them beer, ALUMINUM (pre-def), and LEAD (pre-def)

Exercise: Geometry

activate the geometry debugging with a 1 mm grid (by modifying the GEOEND card) from (x,y,z)=(-6.,0.,-6.) to (x,y,z)=(6.,0.,11.)

see in the manual the GEOEND card

Run and search for Geometry debugging in the .out file:

enjoy the lack of errors!

Perform the same operation using the dedicated

FLAIR Process/Debug frame