## Exercise 3: Geometry

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$\square$ Download the solution of ex2.inp from the website into a new ex3 directory and rename it to ex3.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 $z=10 . \mathrm{cm}$, to cut it re-define the regions TARGET and VOID
- Run


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

2nd segment: from $z=1 . \mathrm{cm}$ to $z=2 . \mathrm{cm}$ (new XYP needed)
3rd segment: from $z=2 . \mathrm{cm}$ to $z=10 . \mathrm{cm}$ (no further bodies needed)
define the 3 target regions
assign them beer, ALUMINUM (pre-def), and LEAD (pre-def)

- Translate the target using start_translat
$x^{\prime}=x+2.718 \mathrm{~cm} ; z^{\prime}=z+3.14 \mathrm{~cm}$


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$\square$ activate the geometry debugging with a 1 mm grid (without FLAIR) from ( $x, y, z$ ) $=(-6 ., 0 .,-6$.$) to (x, y, z)=(6 ., 0 ., 11$.
see in the manual the GEOEND card
$\square$ 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

