

Simulation

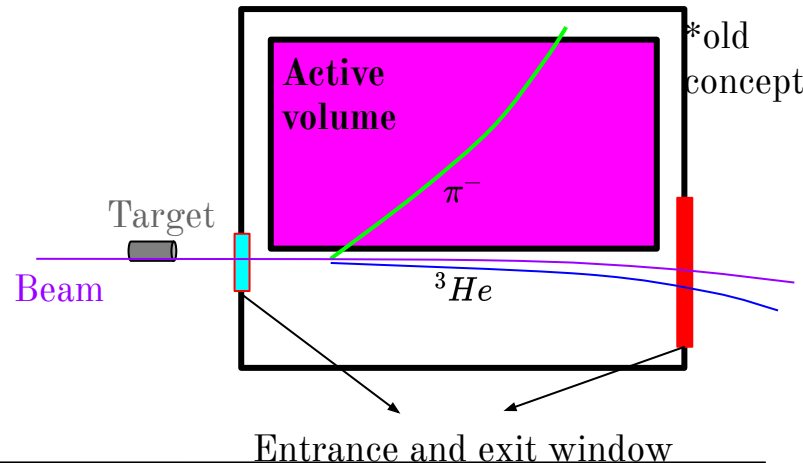
Simone Velardita

06/04/2021
HYDRA meeting

HYDRA: The beam goes *inside* the chamber

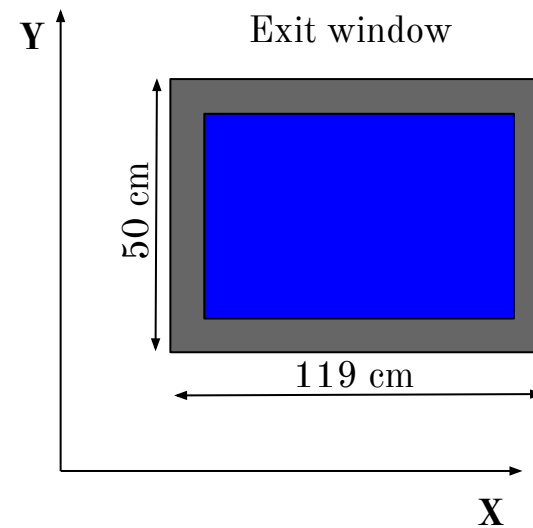
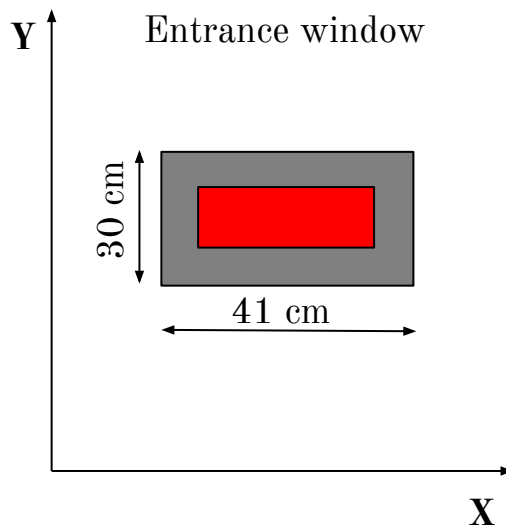
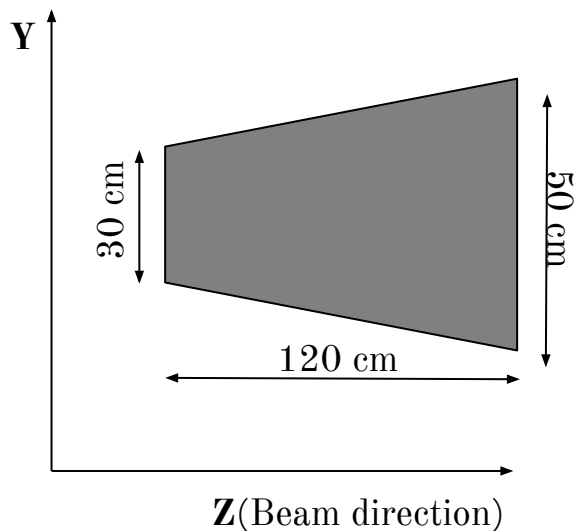
→ Different design concepts for the active region need to be investigated:

- ◆ Efficiency estimation (to be done)
- ◆ Noise estimation (to be done)



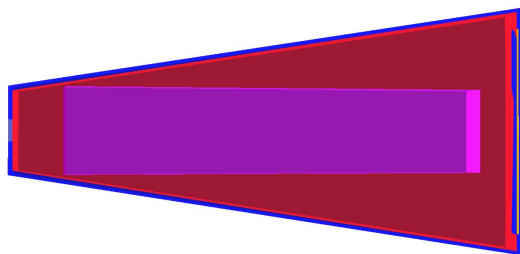
Geometries definition-Detector chamber

The **chamber** is shaped to fit the first half of the inner chamber of GLAD

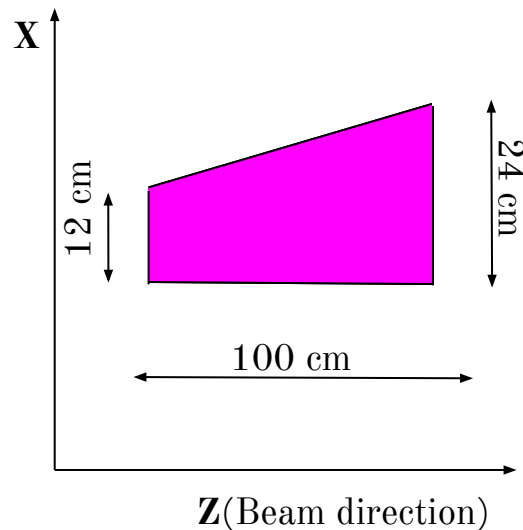
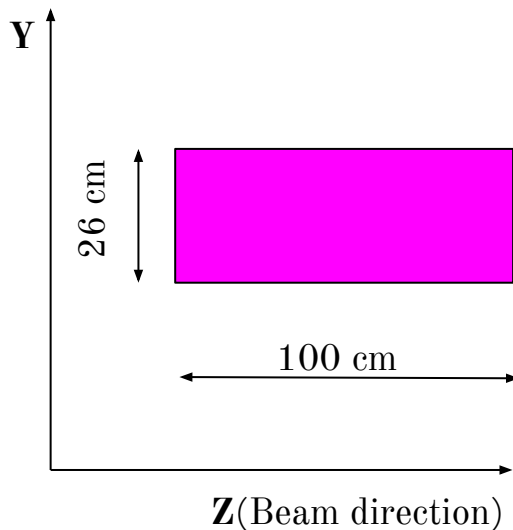


Geometries definition-Active volume (v1)

→ 1 Active volume with Constant Height

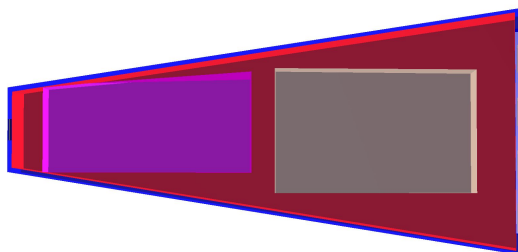


R3BROOT view (YZ)

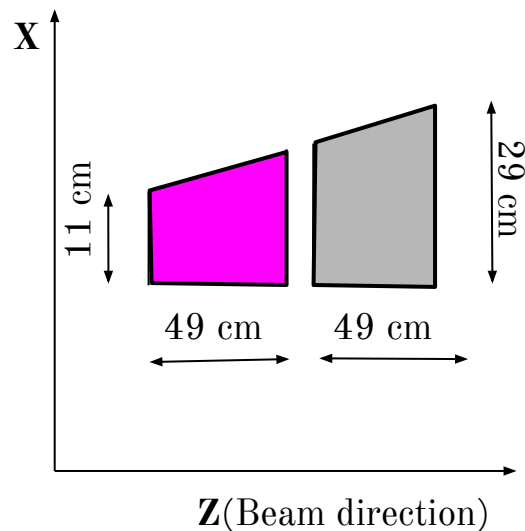
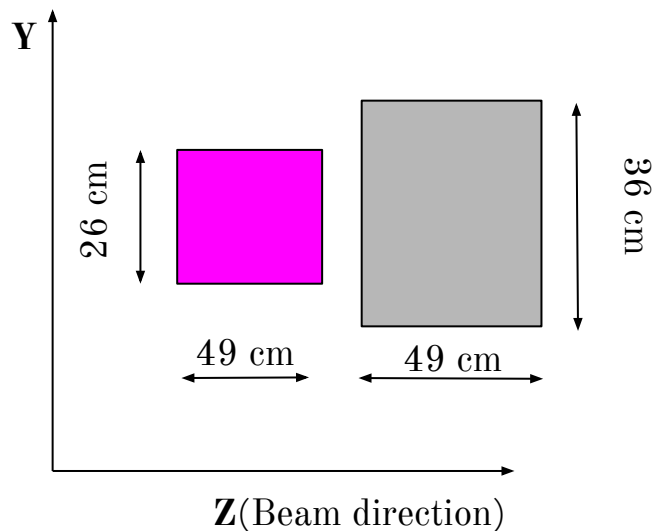


Geometries definition-Active volume (v2)

→ 2 Active volumes with Constant Height

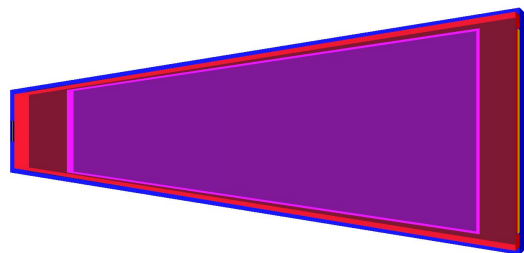


R3BROOT view (YZ)



Geometries definition-Active volume (v3)

→ 1 Active volume with Increasing Height



R3BROOT view (YZ)

