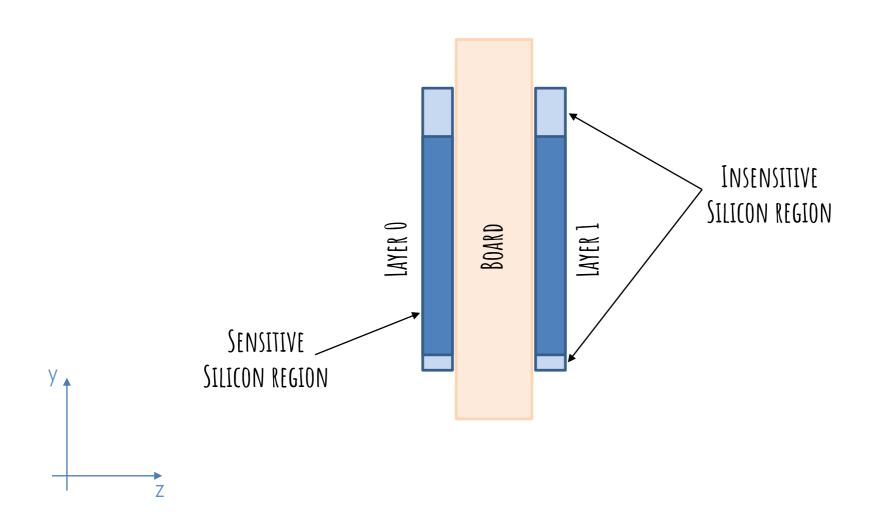
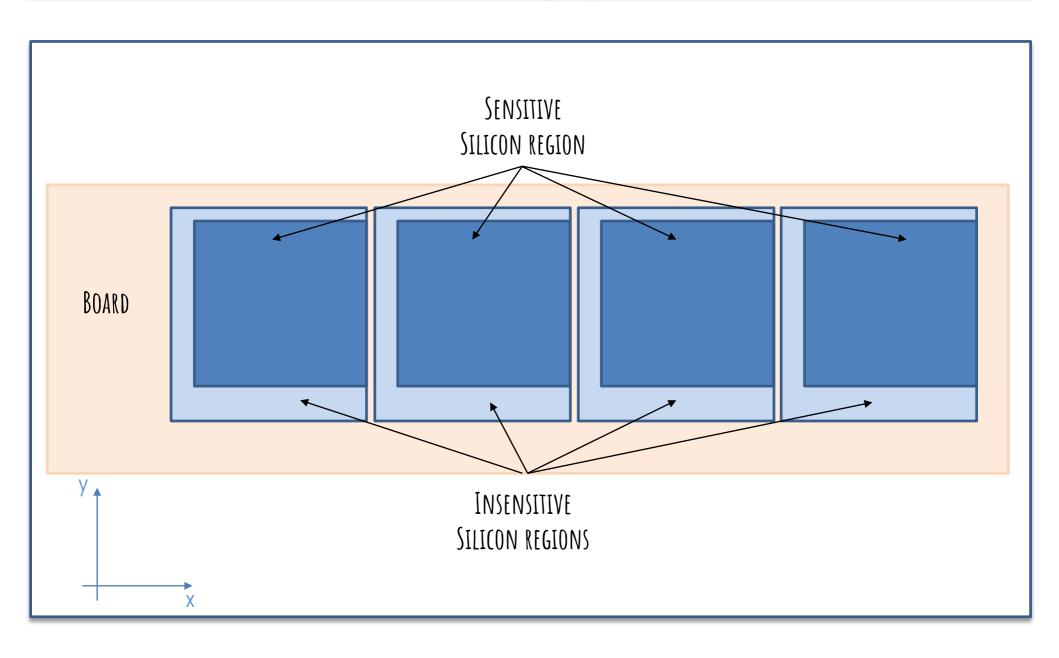


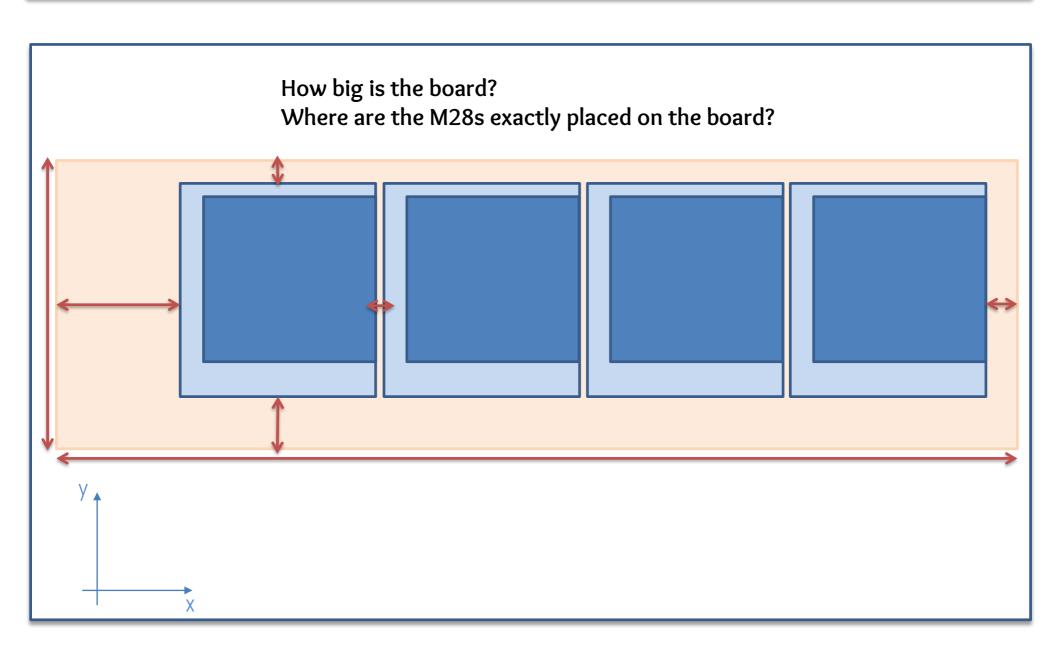
Plume sketch (yz plane)



Plume sketch (xy plane)



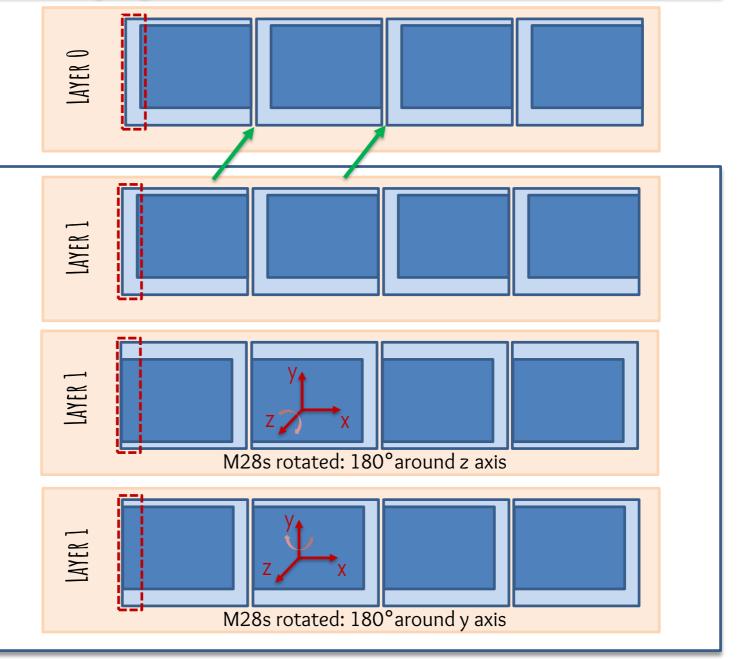
Board dimensions



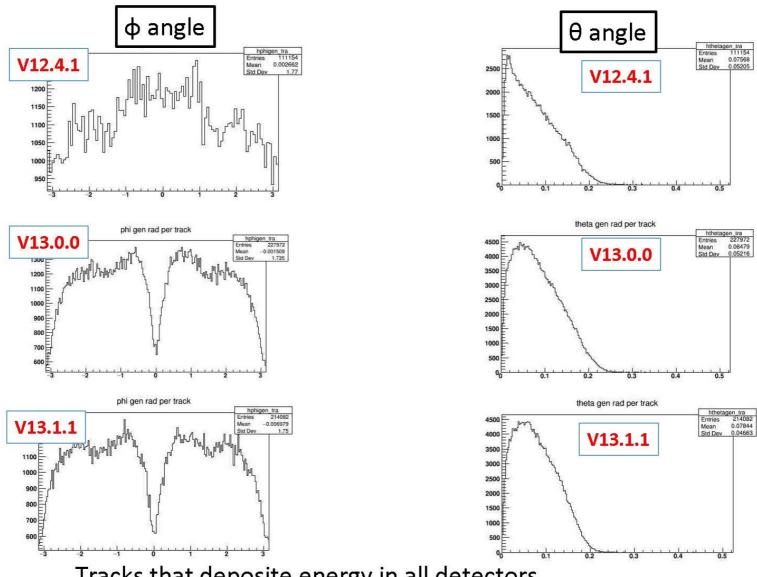
Layers configurations

Which configuration for Layer 1? The same of layer 0 or with M28 turned upside down or flipped?

Are the two layers perfectly aligned or can we stagger them to overcome the non sensitive space btw the M28s?

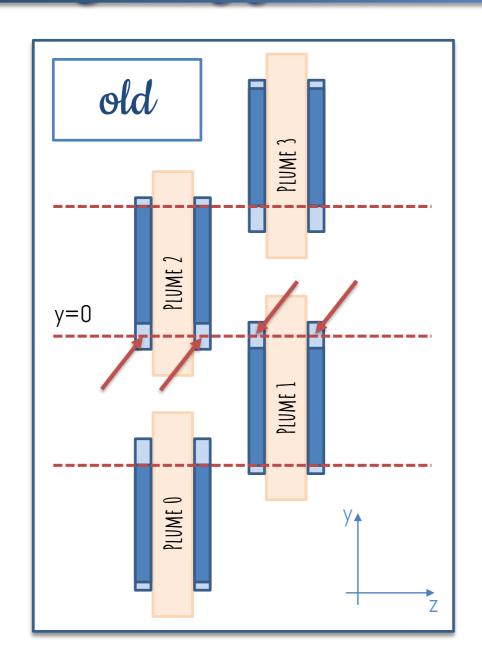


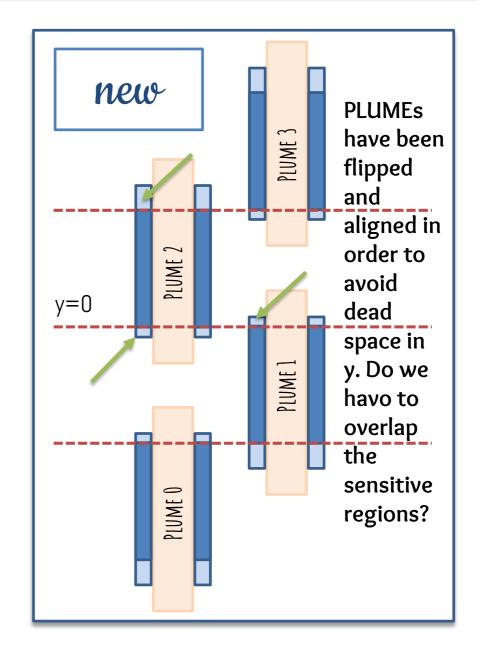
A problem emerged...



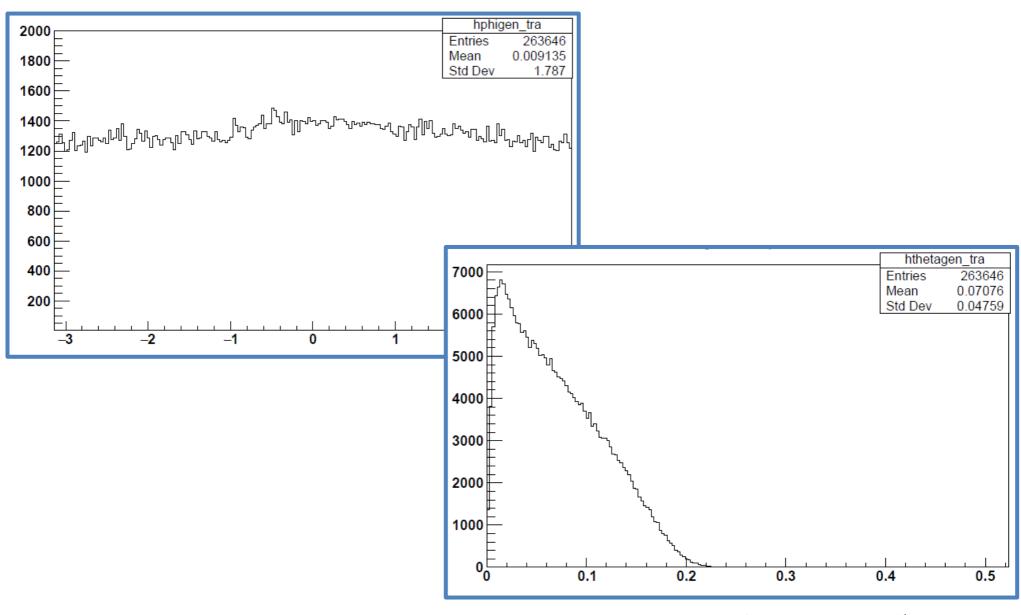
Tracks that deposite energy in all detectors

Y stagger



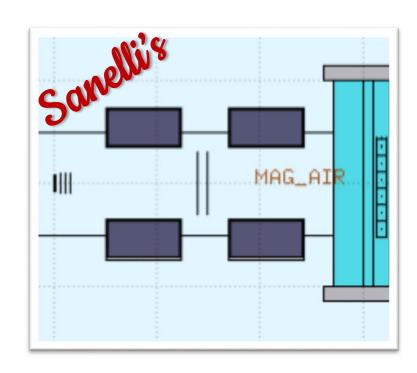


...problem solved!

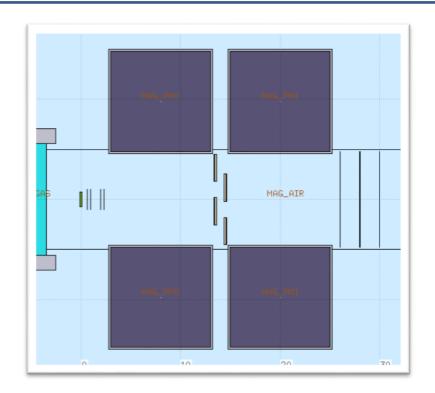


THANKS TO ALBERTO MENGARELLI

Magnets

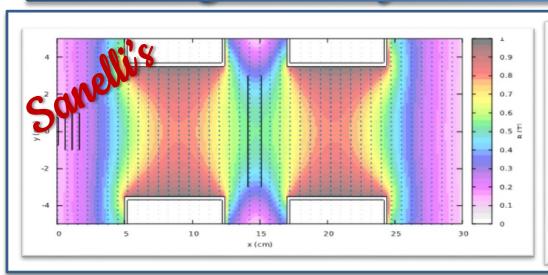


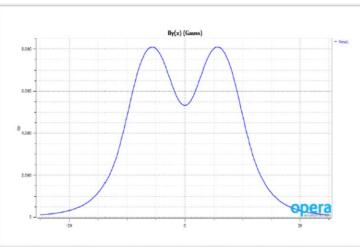
- 7cm long (+0,4cm Al cover)
- 3,7cm internal radius (-0,2cm Al cover)
- 5cm distance btw magnets (-0,2cm Al cover)



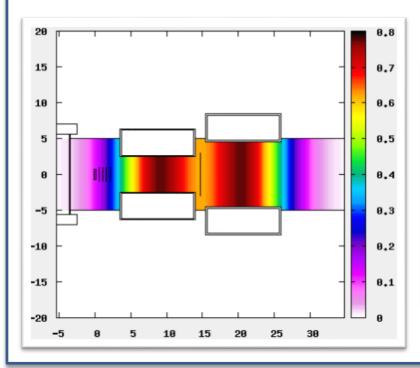
- 10cm long (+0,4cm Al cover)
- ~ 4,7cm internal radius (-0,2cm Al cover)
- 2cm distance btw magnets (-0,2cm Al cover)
- Distance btw the magnets centers invariated (detectors position has not changes)

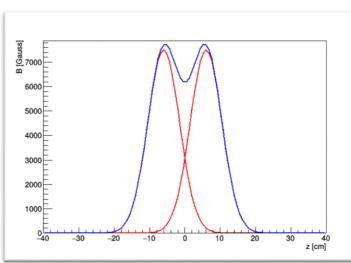
Magnetic field





Realistic magnetic field calculated with a dedicated software





Approximated map with $B_x = B_z = 0$, while B_y is z dependent. It has been calculated as a sum of two Gaussian magnetic fields that qualitatively fit the new configuration.