

HADES B - Field

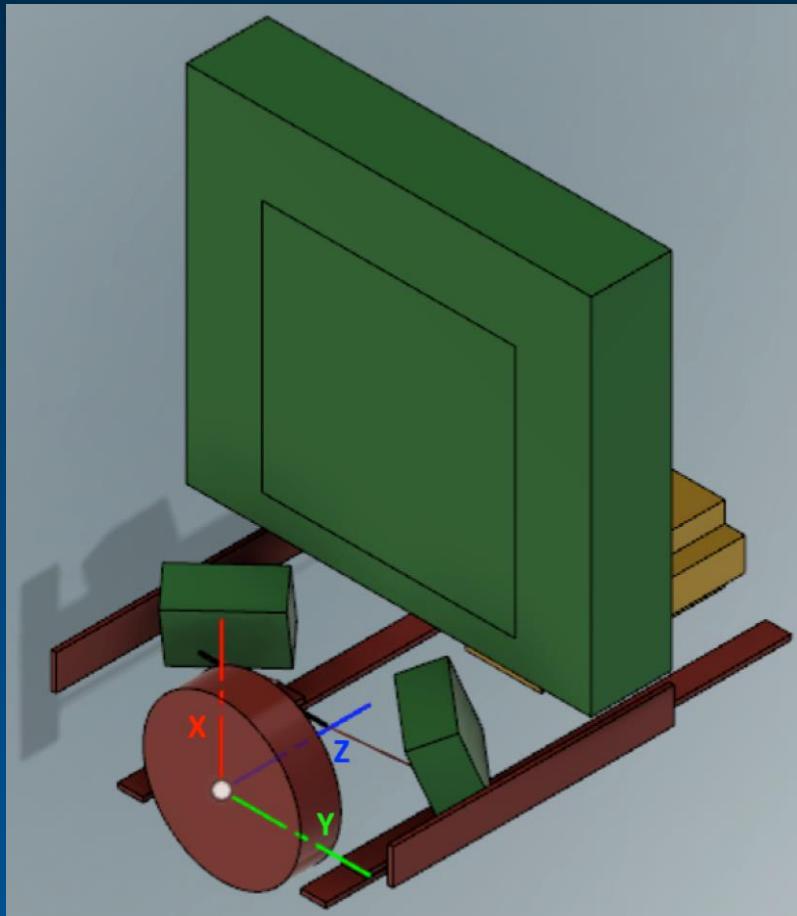
J. F., GSI, 13.02.2017

New simulations

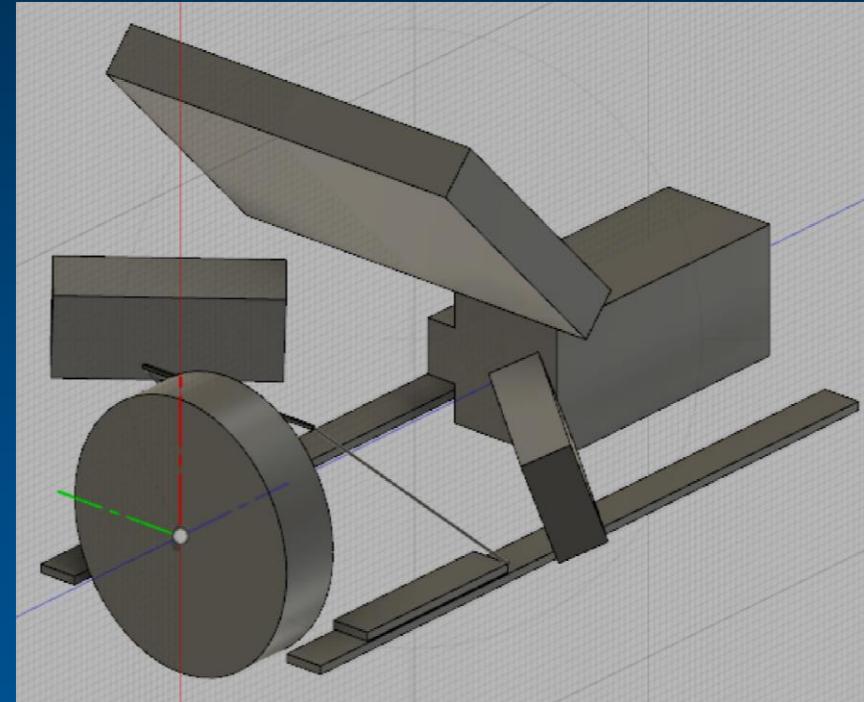
- » Comsol 5.21
- » Coil geometry by ruler & hand
- » Preliminary Results

Shields necessary

SRC Neutron Detectors

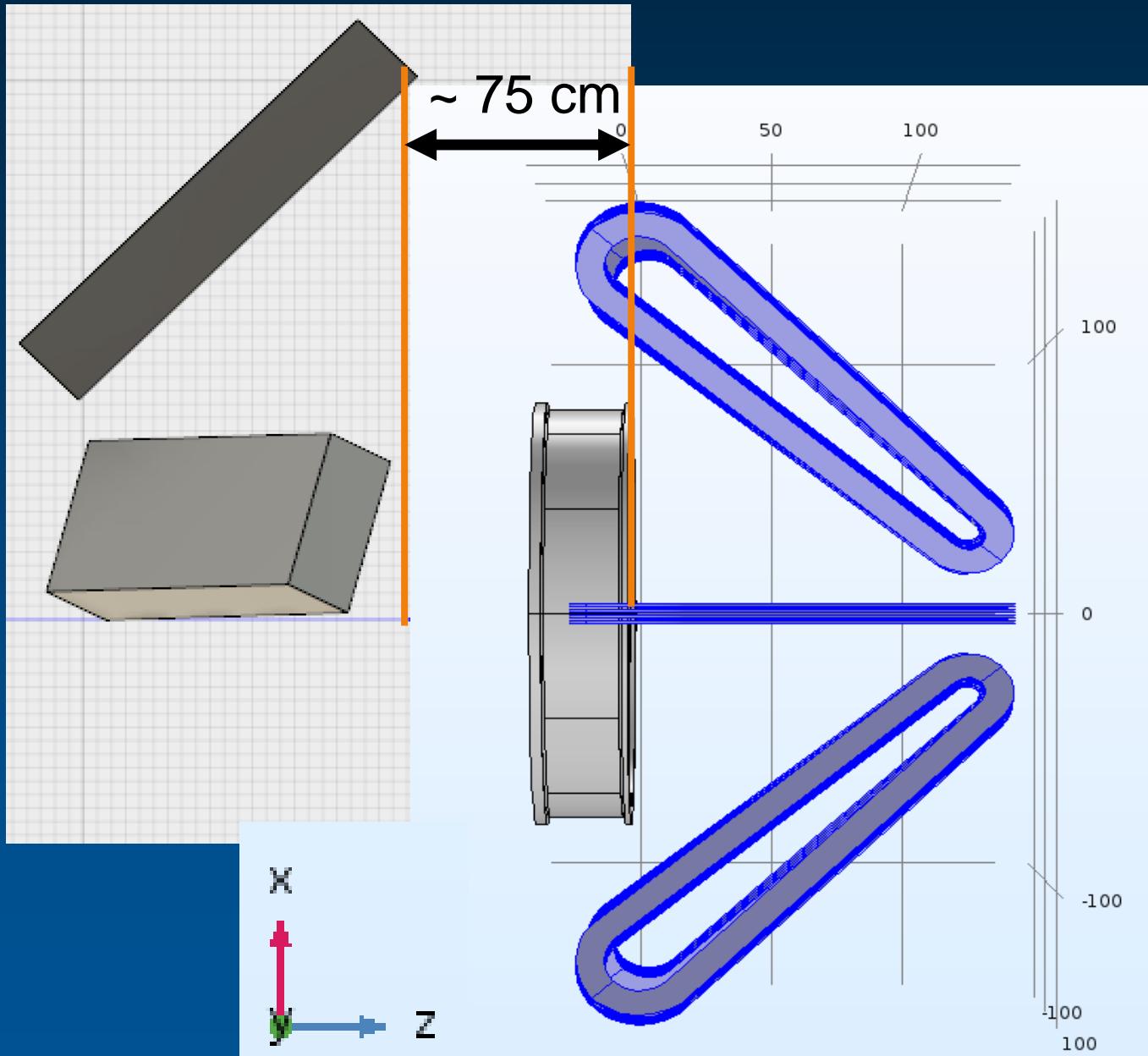


RICH



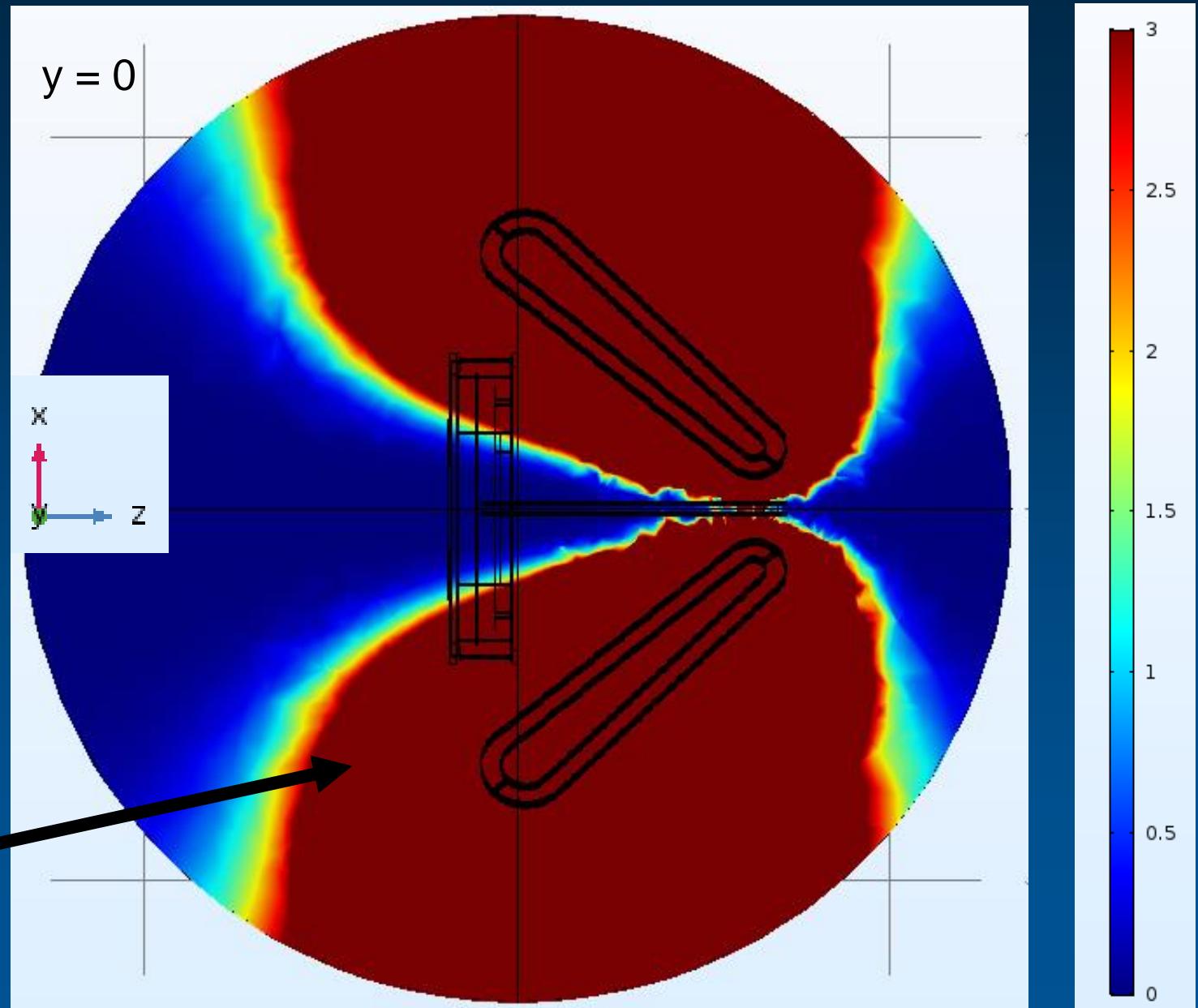
RICH

Geometry

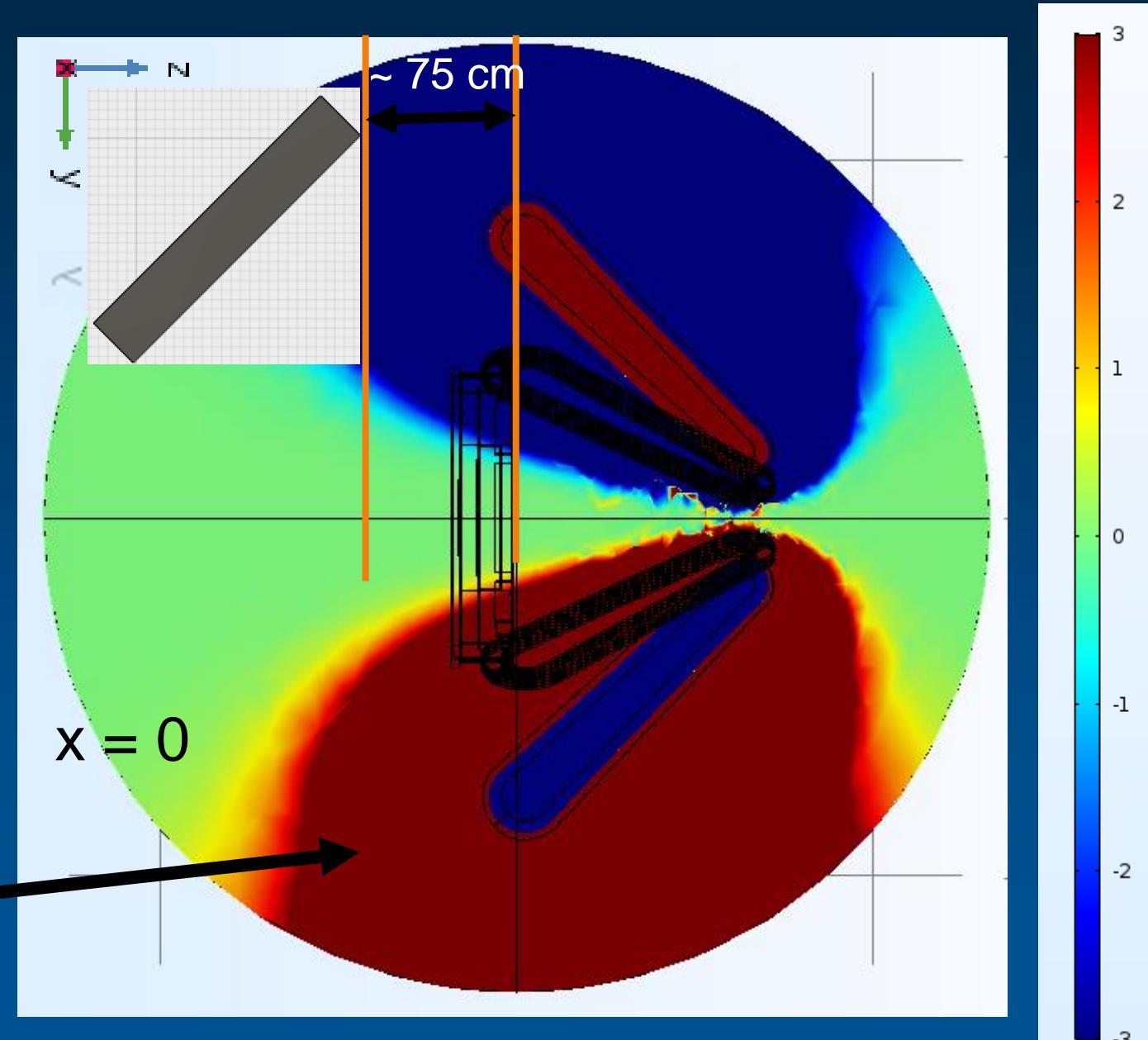


B – field: x – z plane

$|B|$
 $> 3 \text{ mT}$



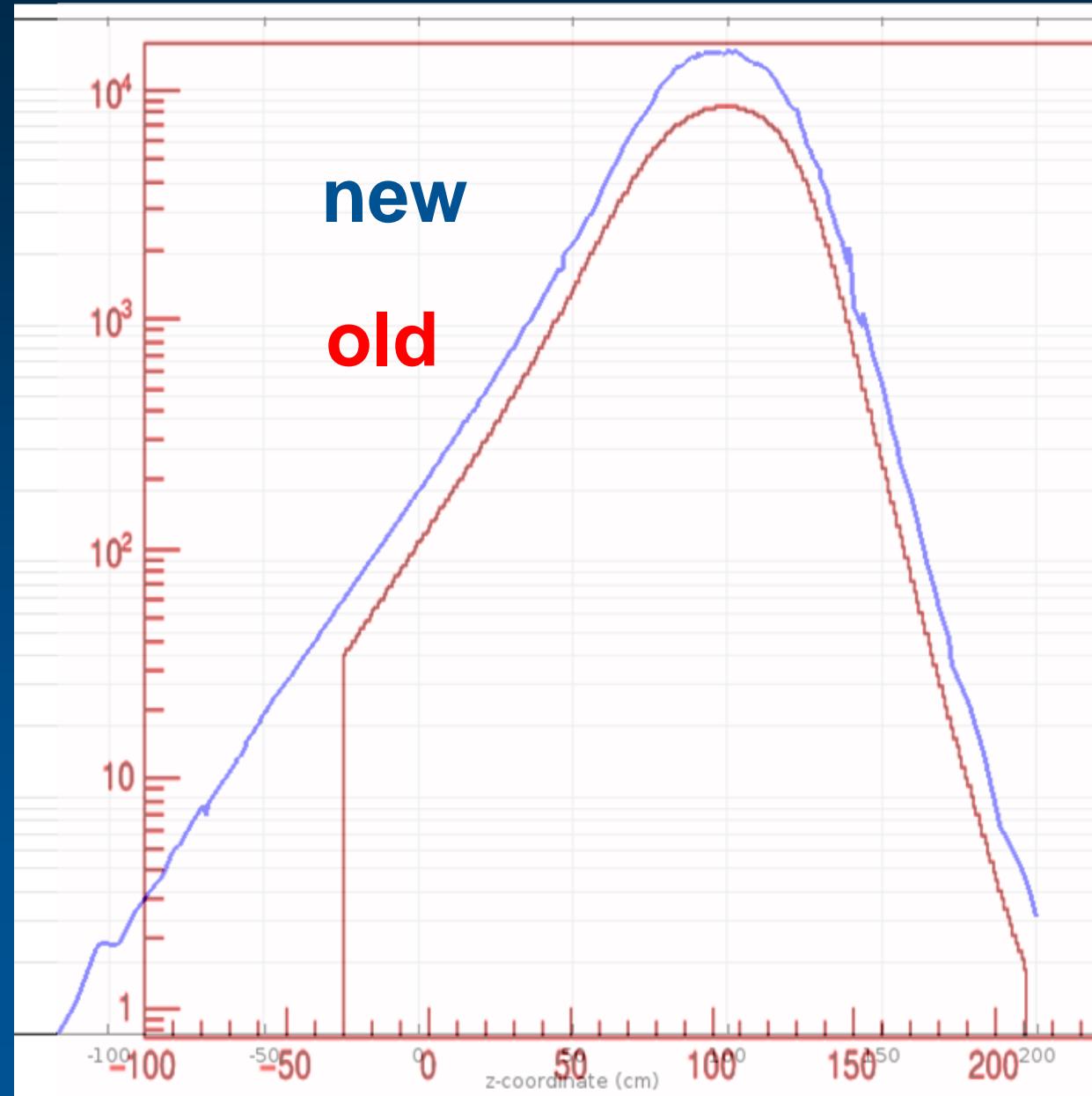
$|B_x|$
 $> 3 \text{ mT}$



Field Map vs New Sim

$B(z)$

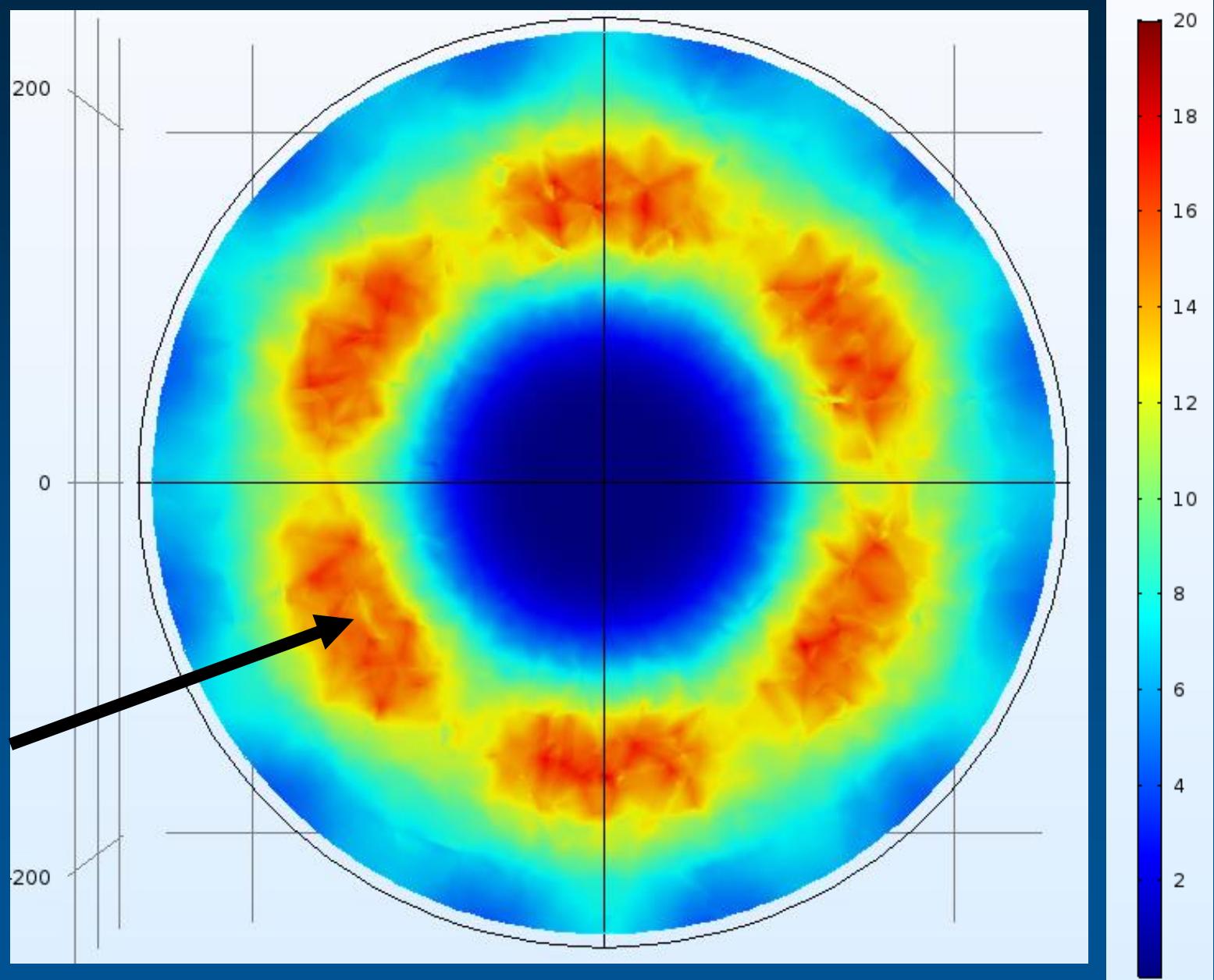
@ $x = 40 \text{ cm}$
 $y = 40 \text{ cm}$



B – field: x – y plane

@ z =
-75 cm

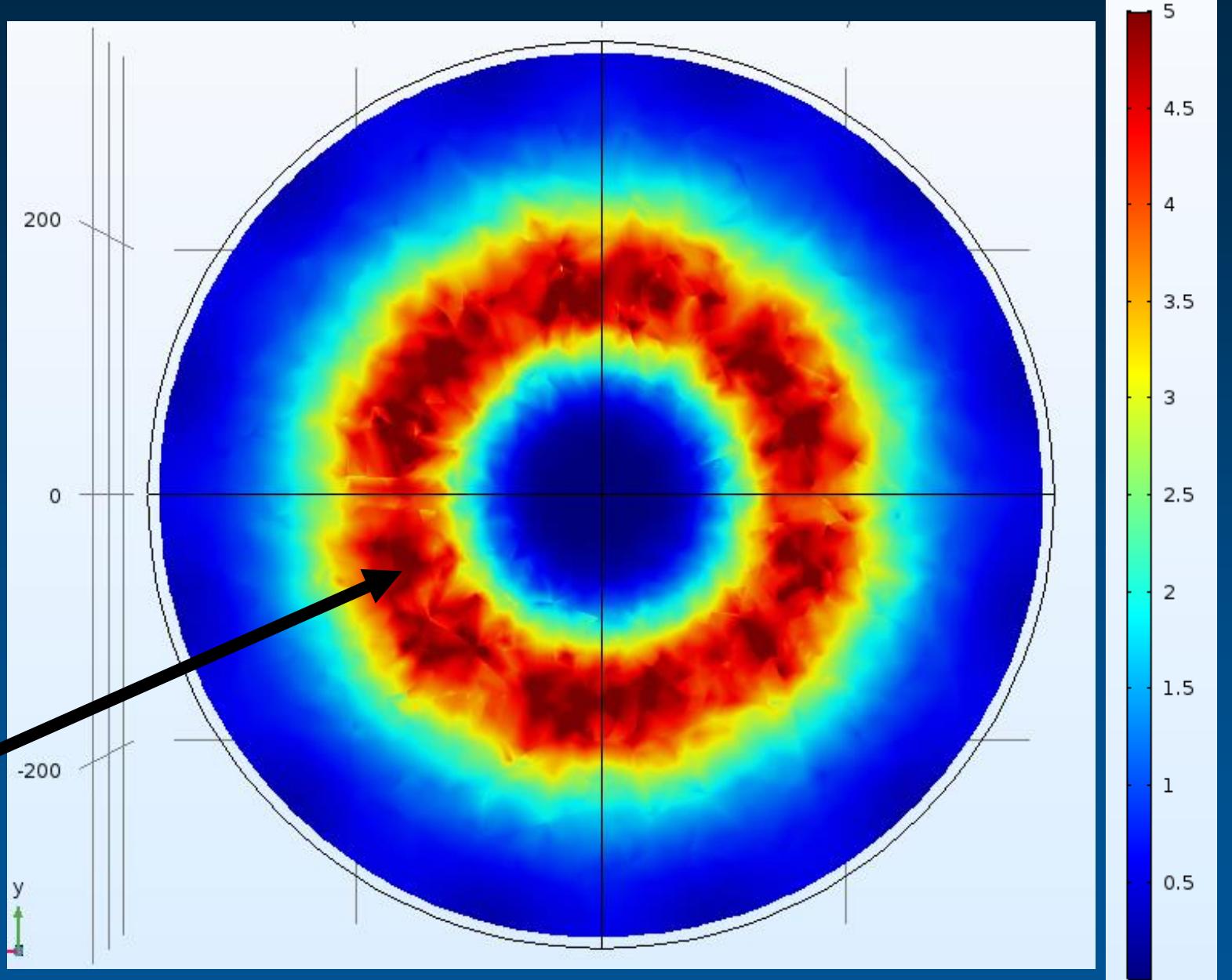
| B | ~
20 mT



B – field: x – y plane

@ z =
-100 cm

| B | ~
5 mT



Thank You