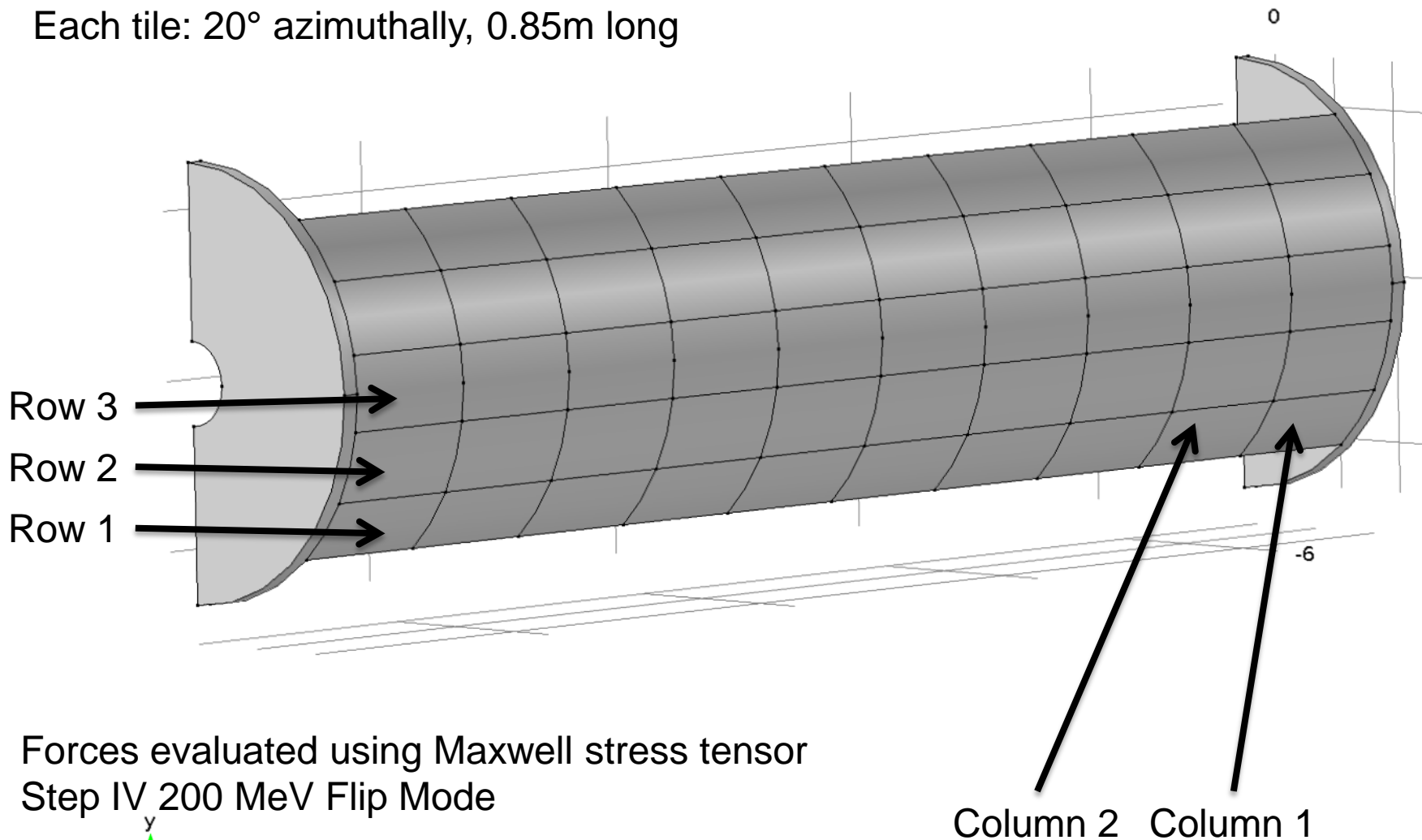


# Update on Shield

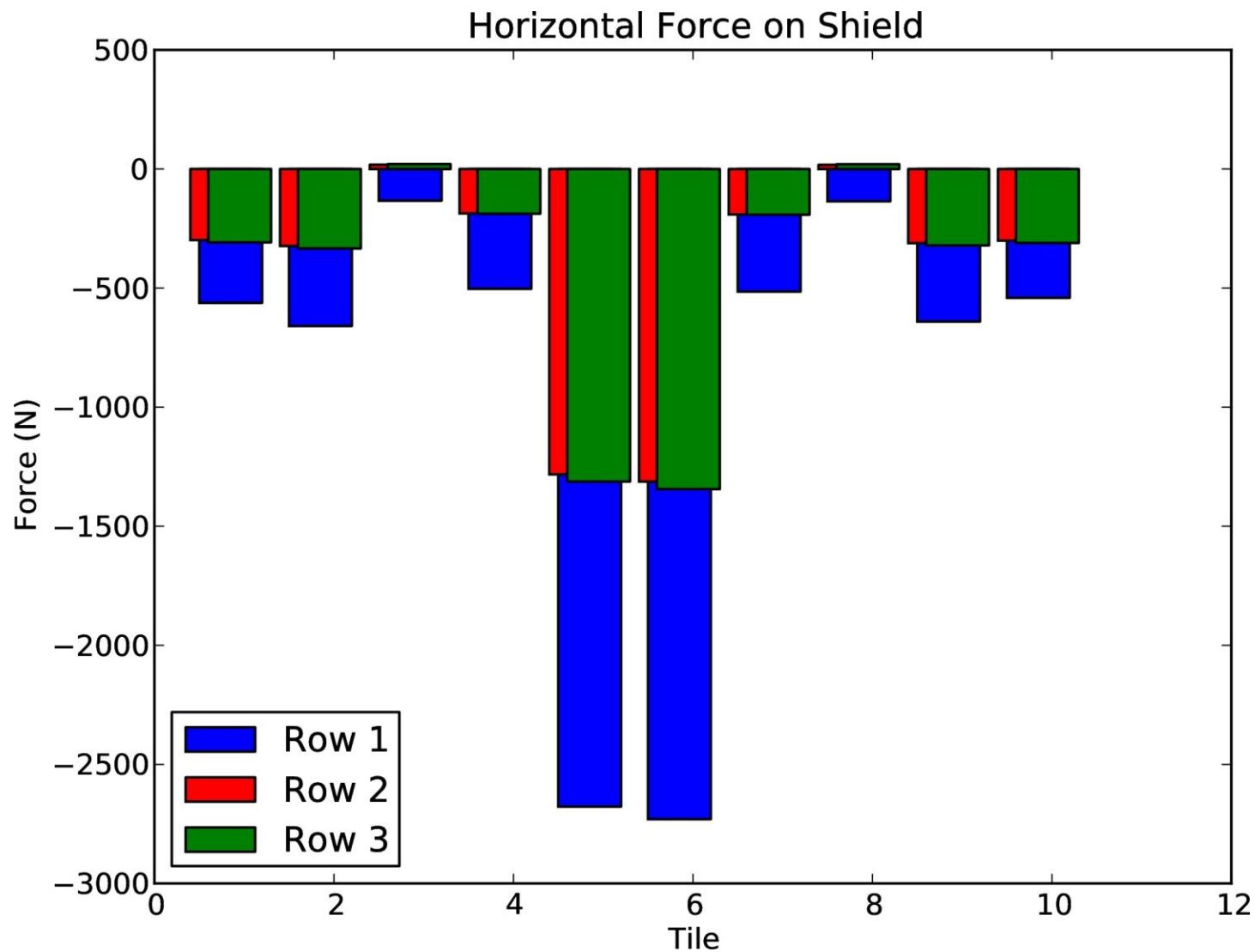
Holger Witte  
Brookhaven National Laboratory  
Advanced Accelerator Group

# Coordinate System

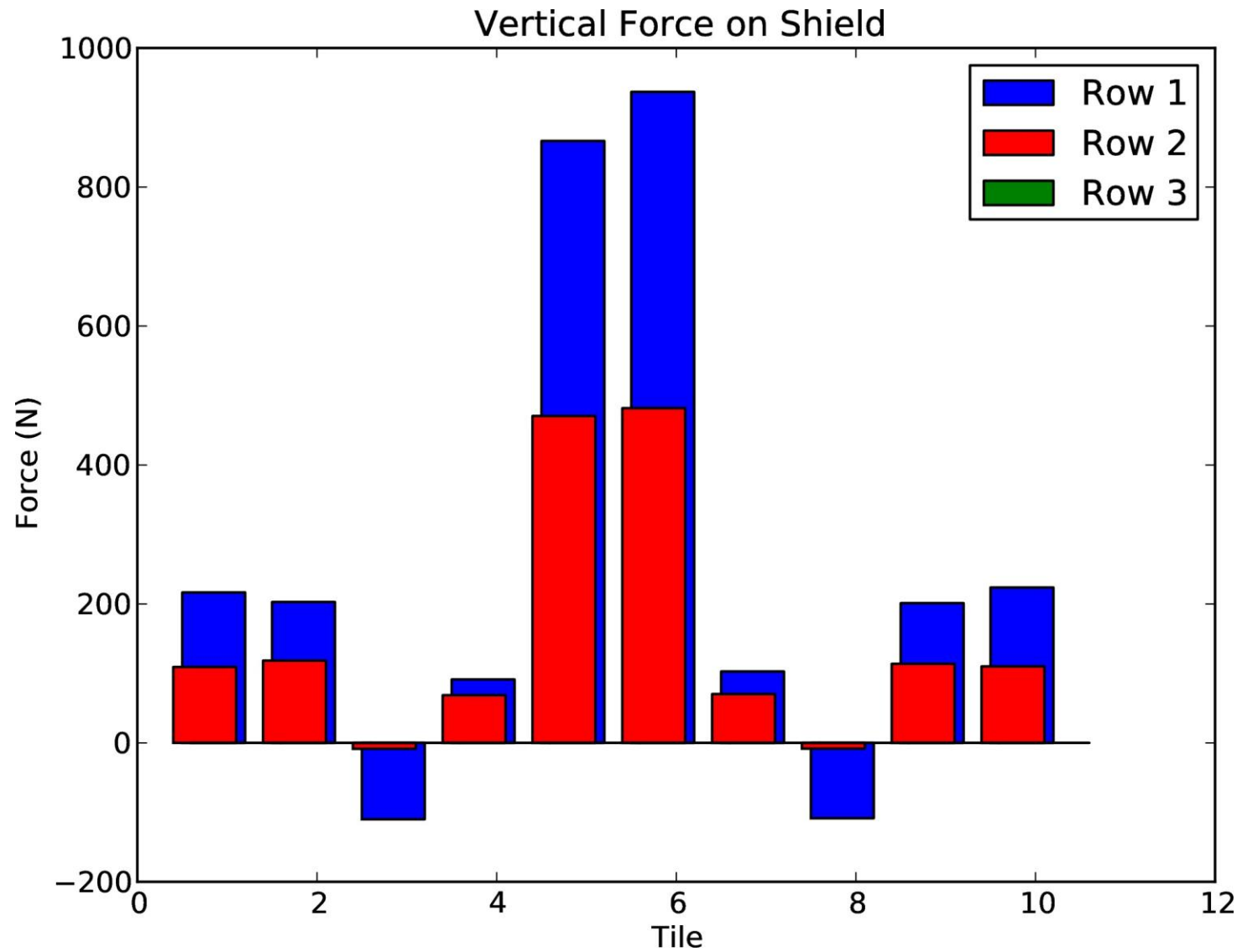
Each tile: 20° azimuthally, 0.85m long



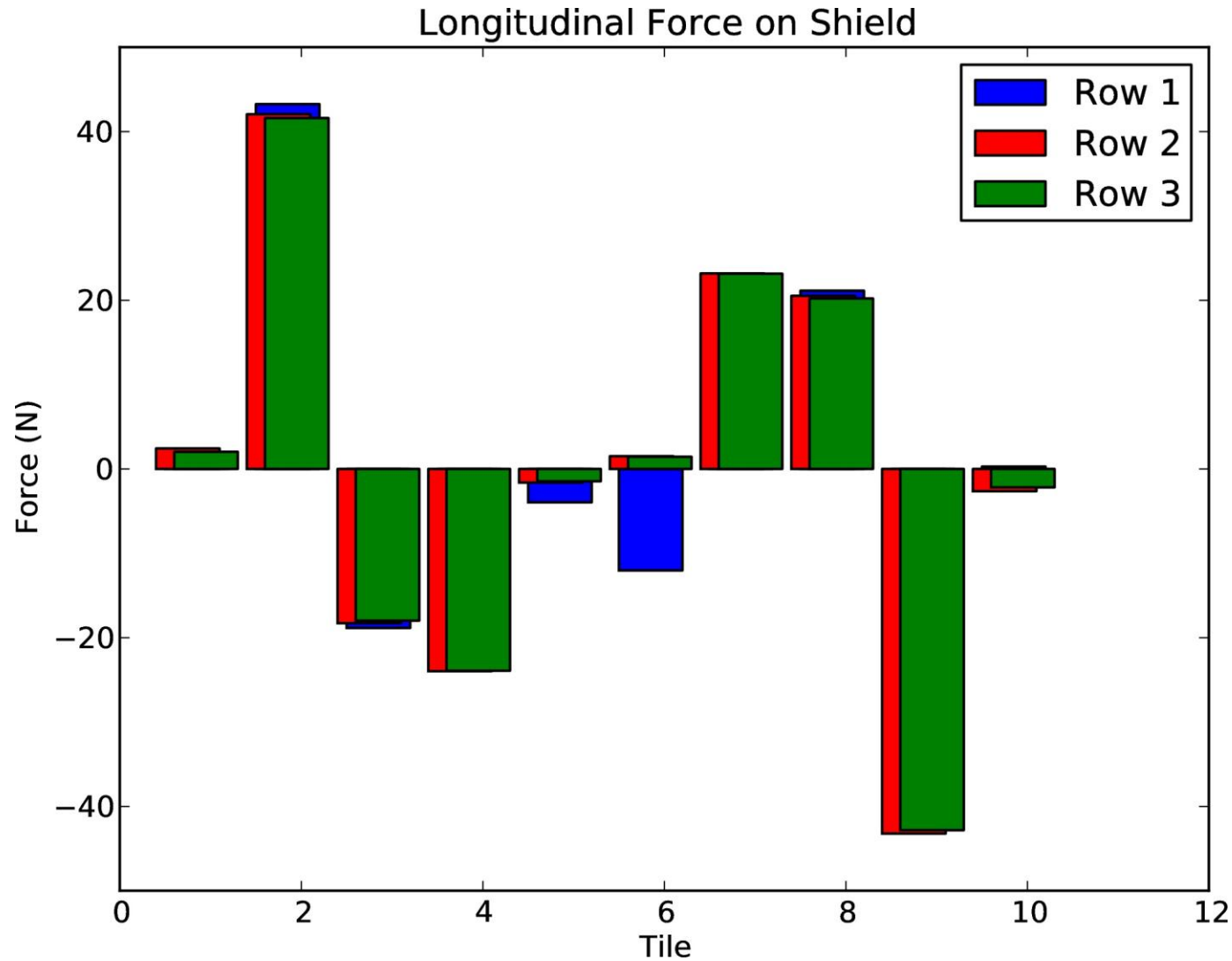
# Horizontal Force



# Vertical Force



# Longitudinal Force

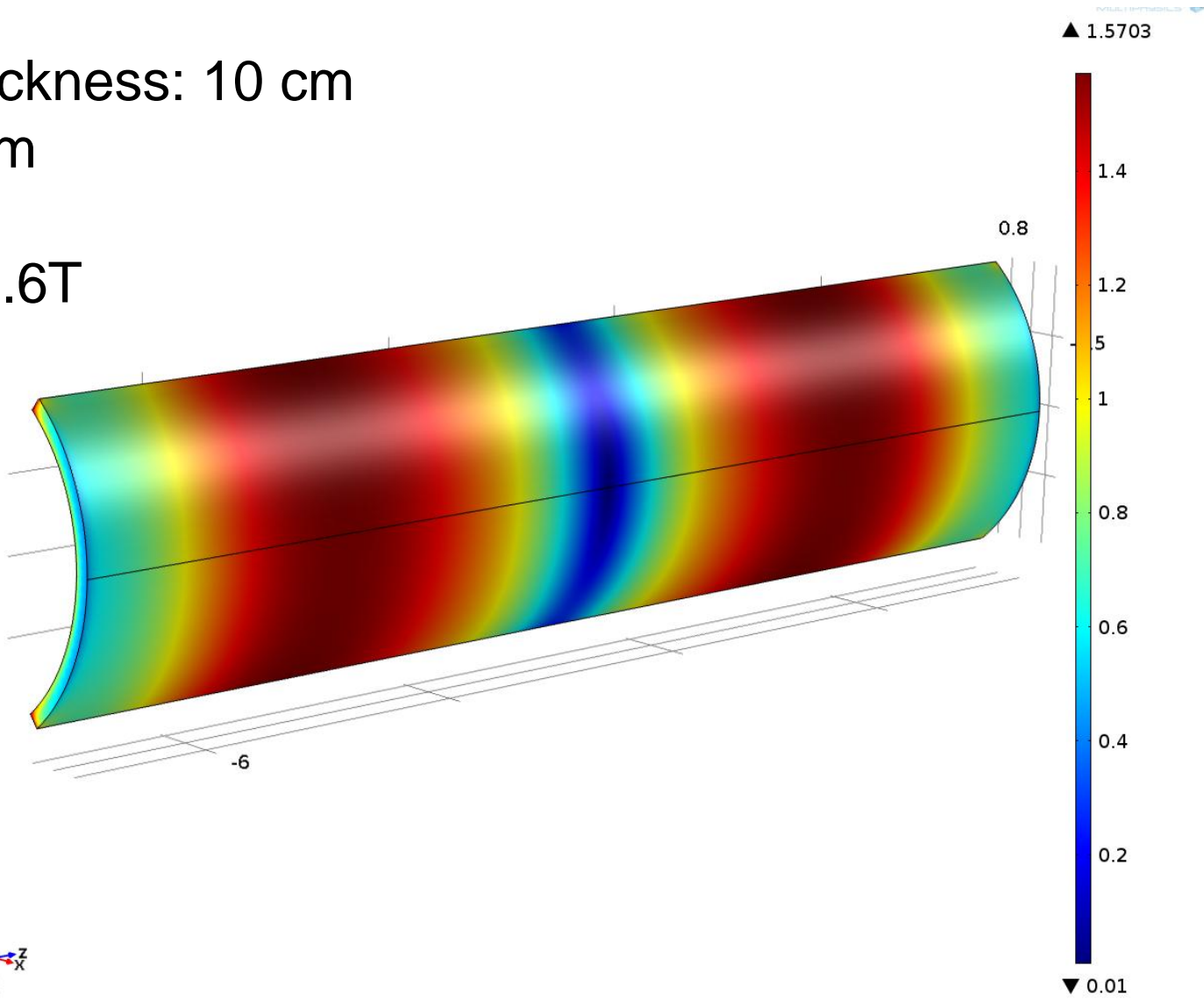


# Magnetization In Shield - COMSOL

Wall thickness: 10 cm

$r = 1.2$  m

about 1.6T



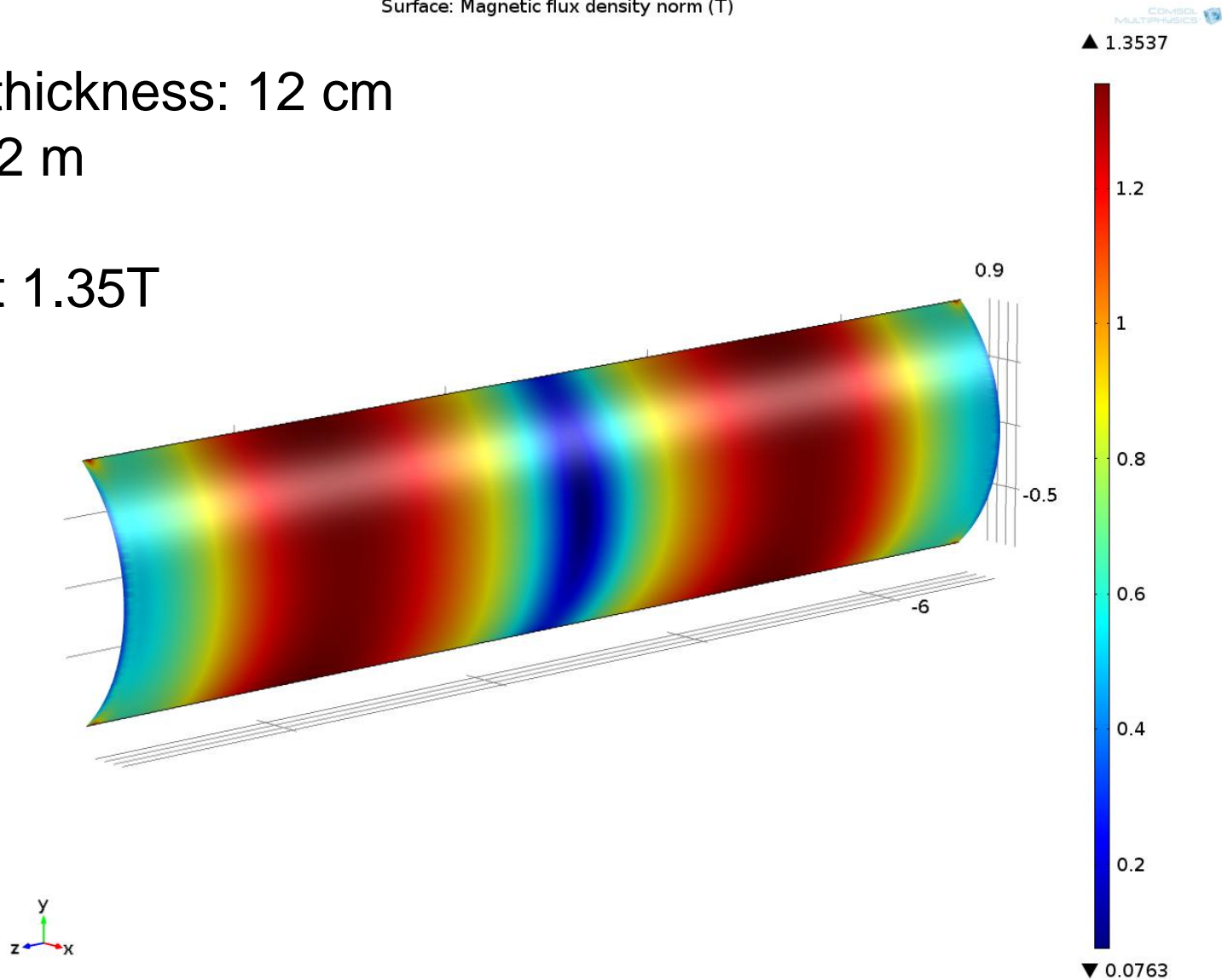
# Magnetization In Shield - COMSOL

Surface: Magnetic flux density norm (T)

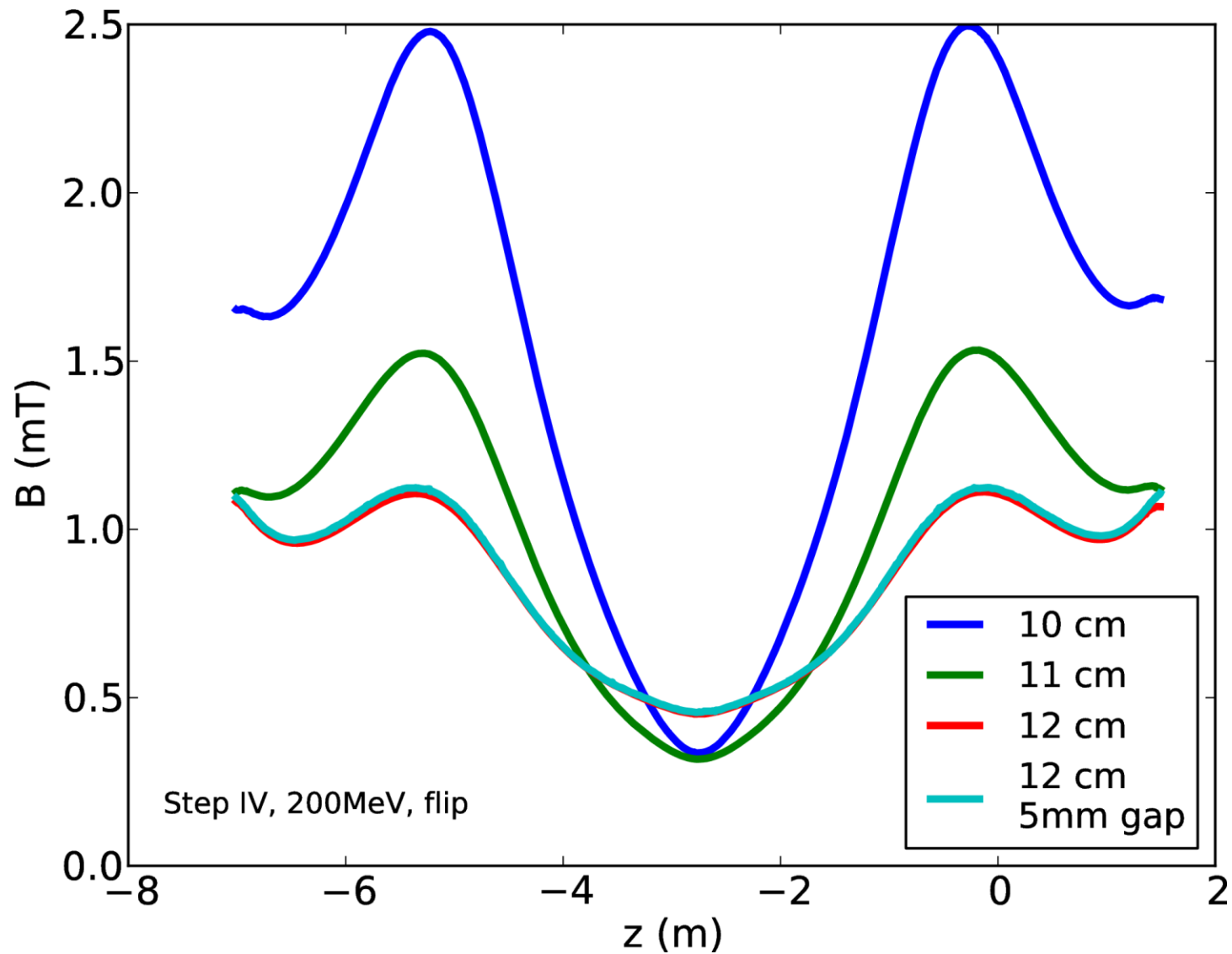
Wall thickness: 12 cm

$r = 1.2$  m

about 1.35T



# Varying Shield Thickness

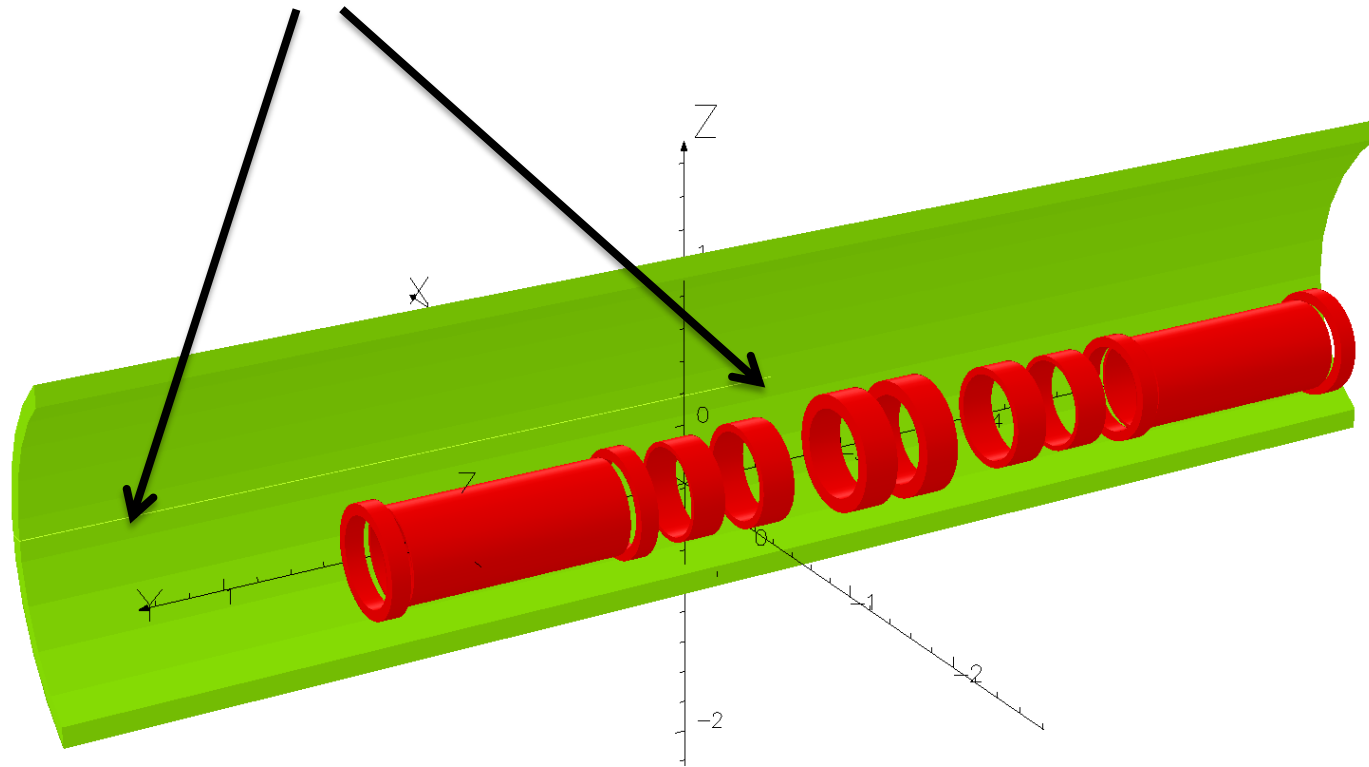


$r = 1.5 \text{ m}$



# Gaps in Shield

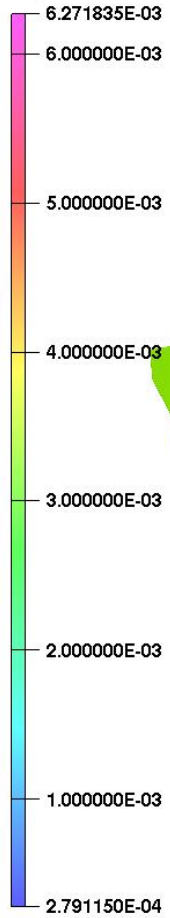
5 mm gap in longitudinal direction



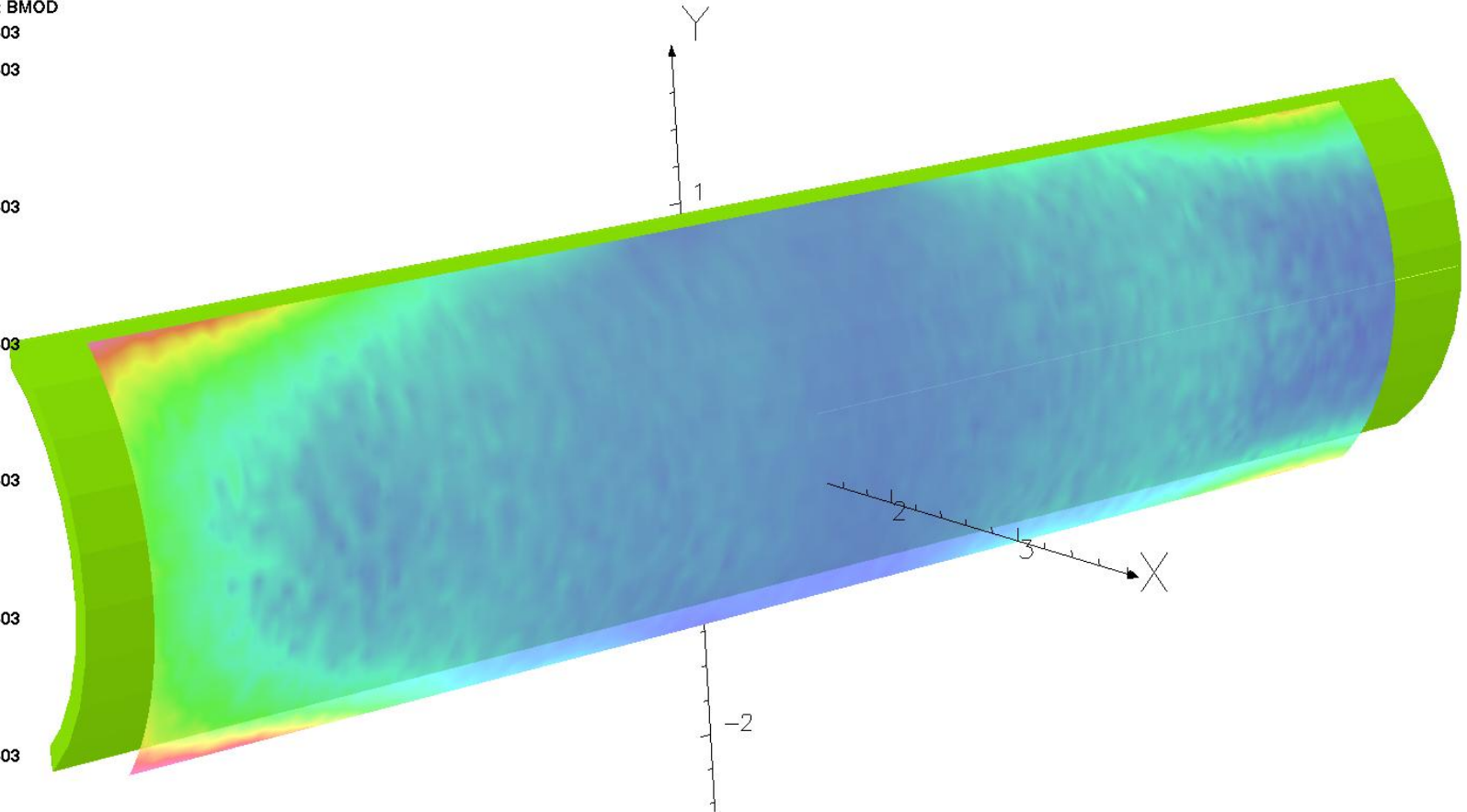
# 5 mm Gap in Shield

14/Nov/2012 13:28:22

Map contours: BMOD



Integral = 1.945346E-02



Opera

# 5 mm Gap in Shield - Comsol

