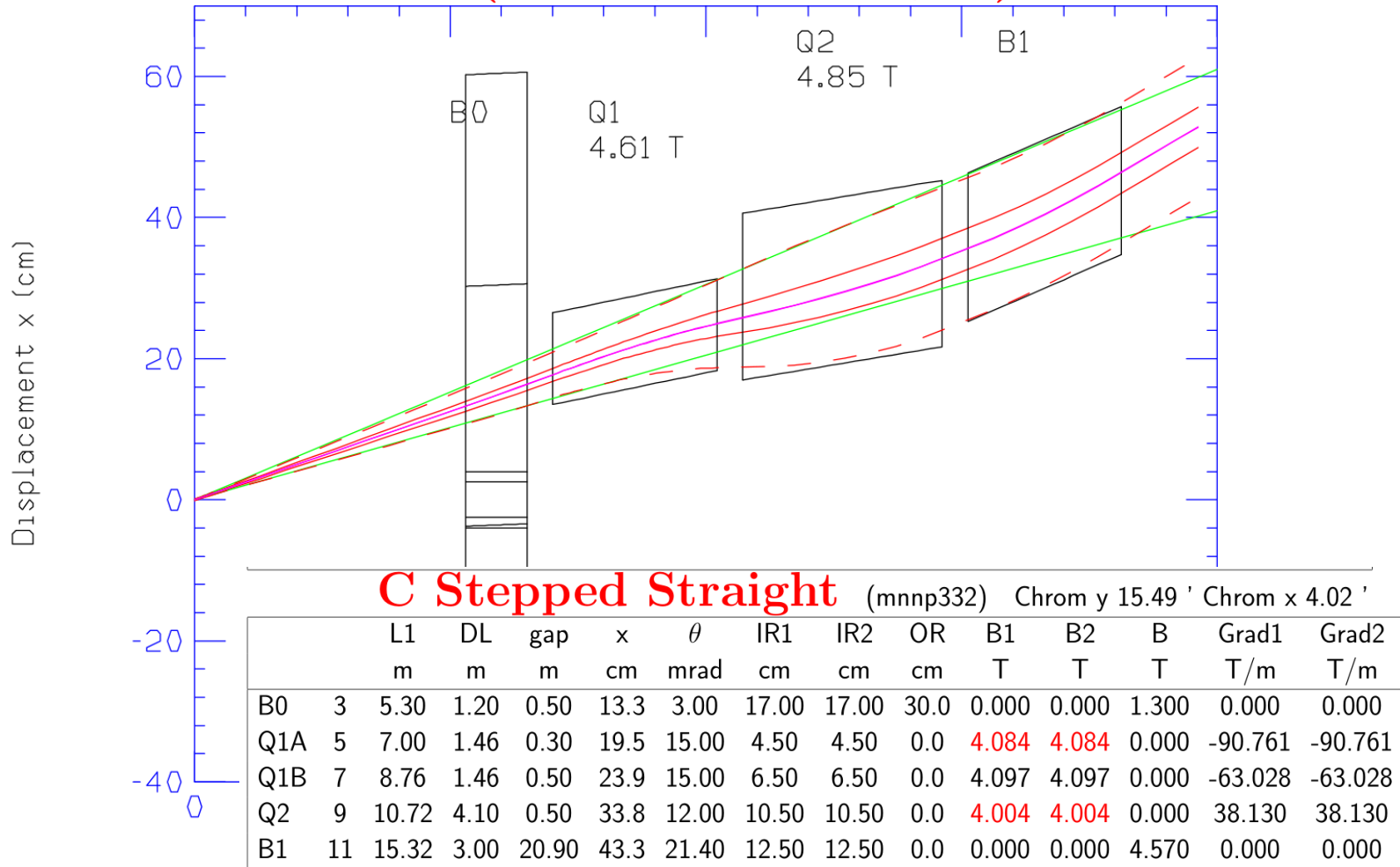


# eRHIC IR Q1PF Stepped

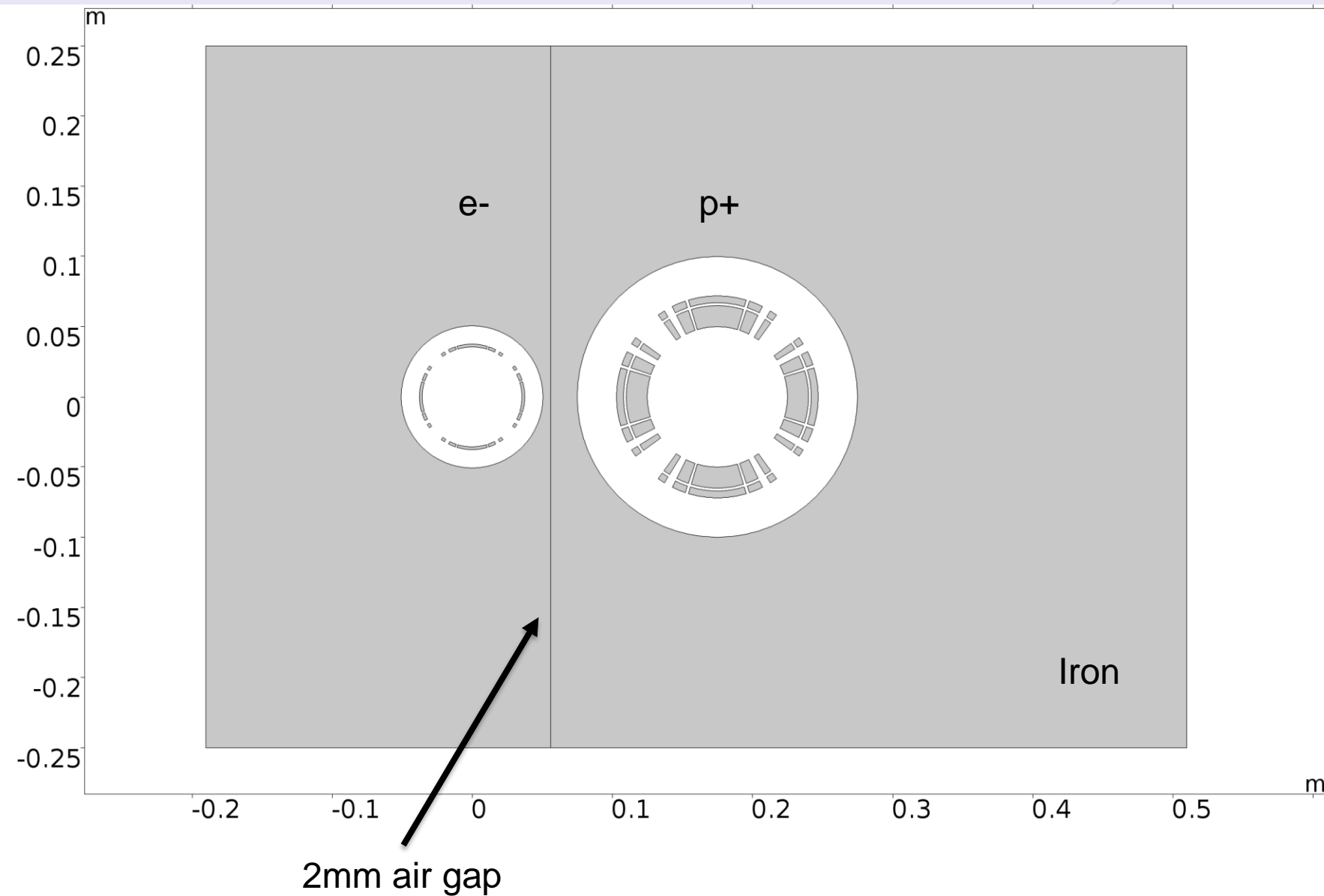
Holger Witte  
Brookhaven National Laboratory  
Energy Frontier Accelerator Group

## NEW Layout B (Straight-Straight) (dnp332k)

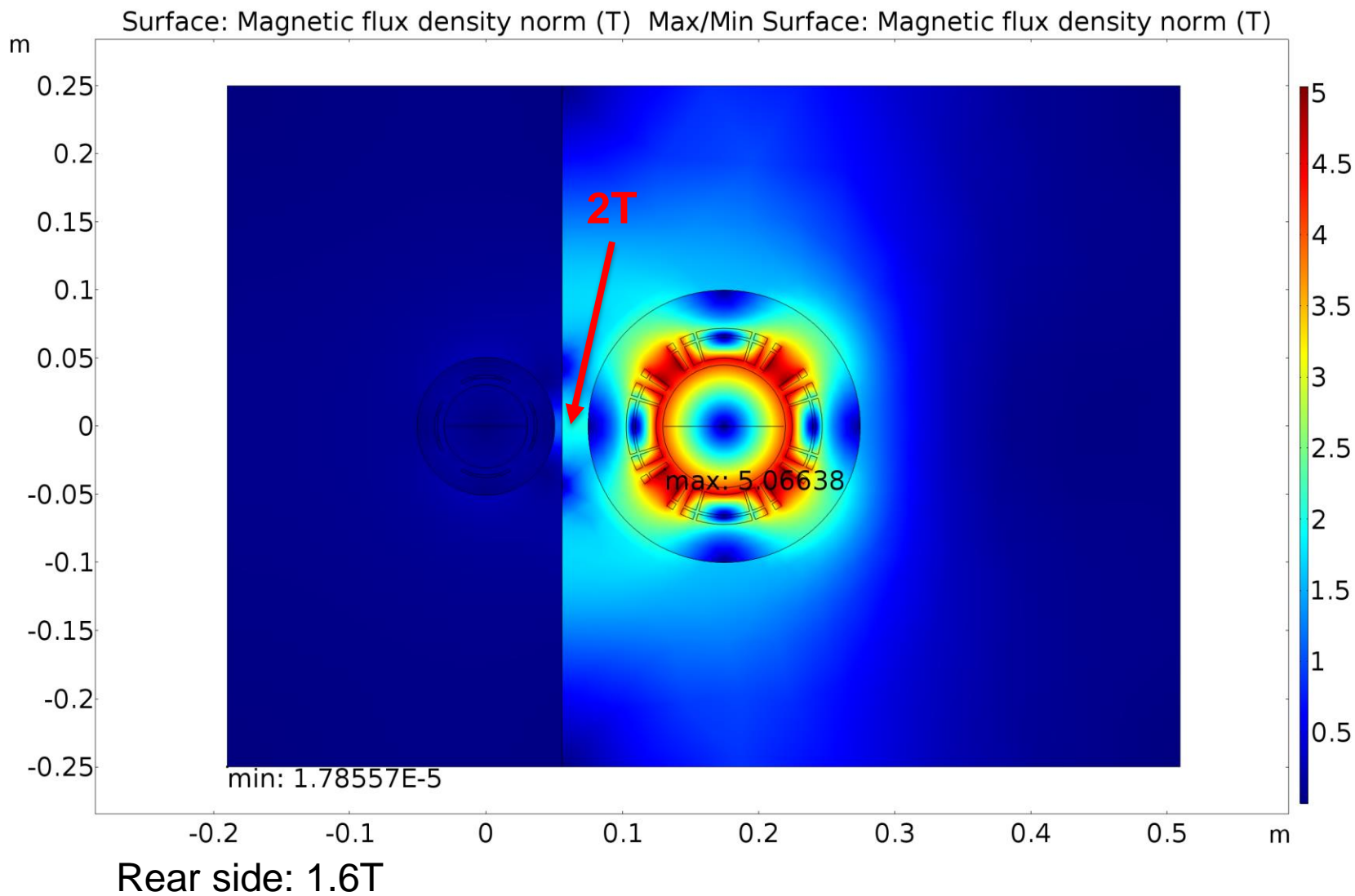


Electrons the same as (1)

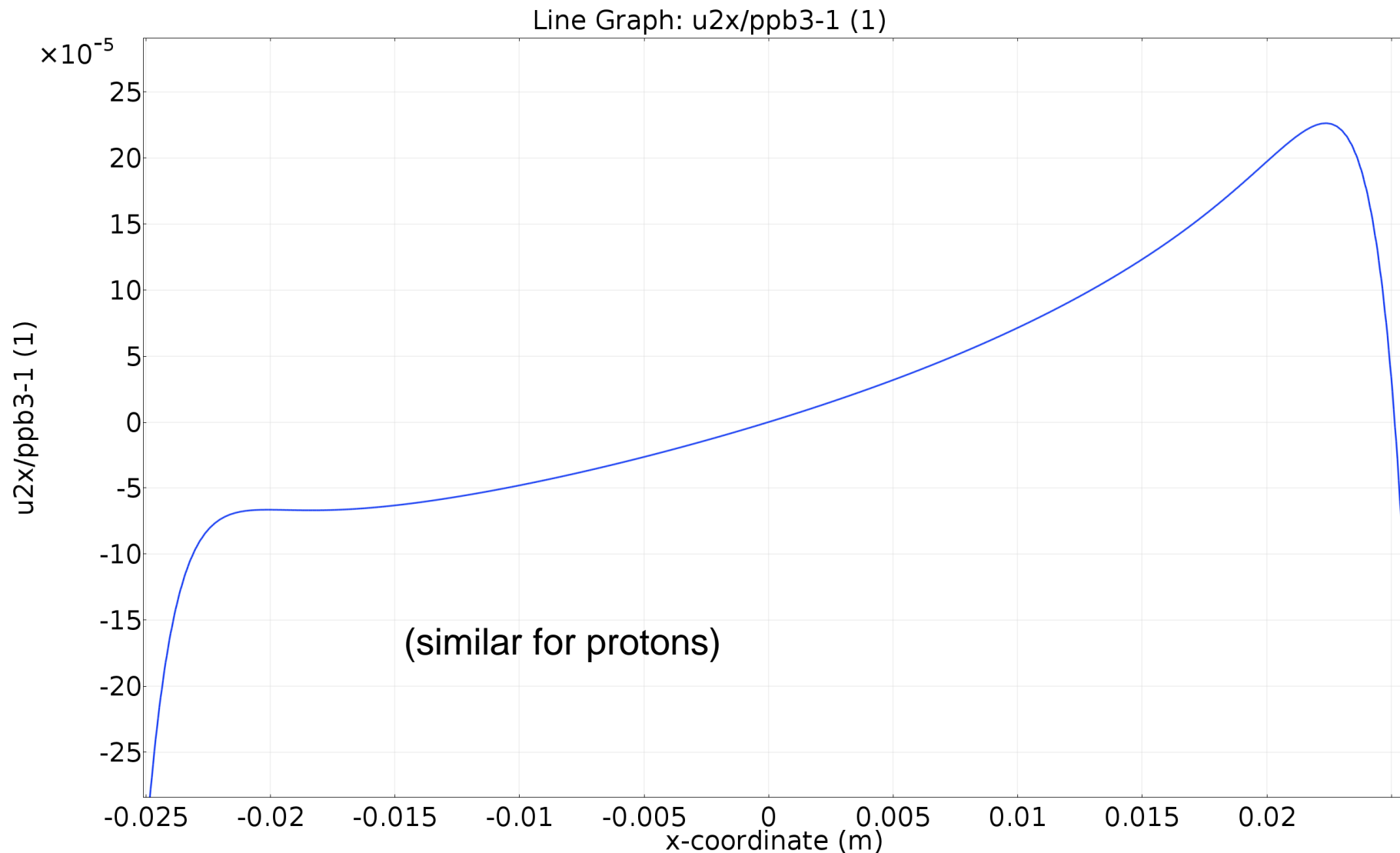
# Geometry (Q1APF)



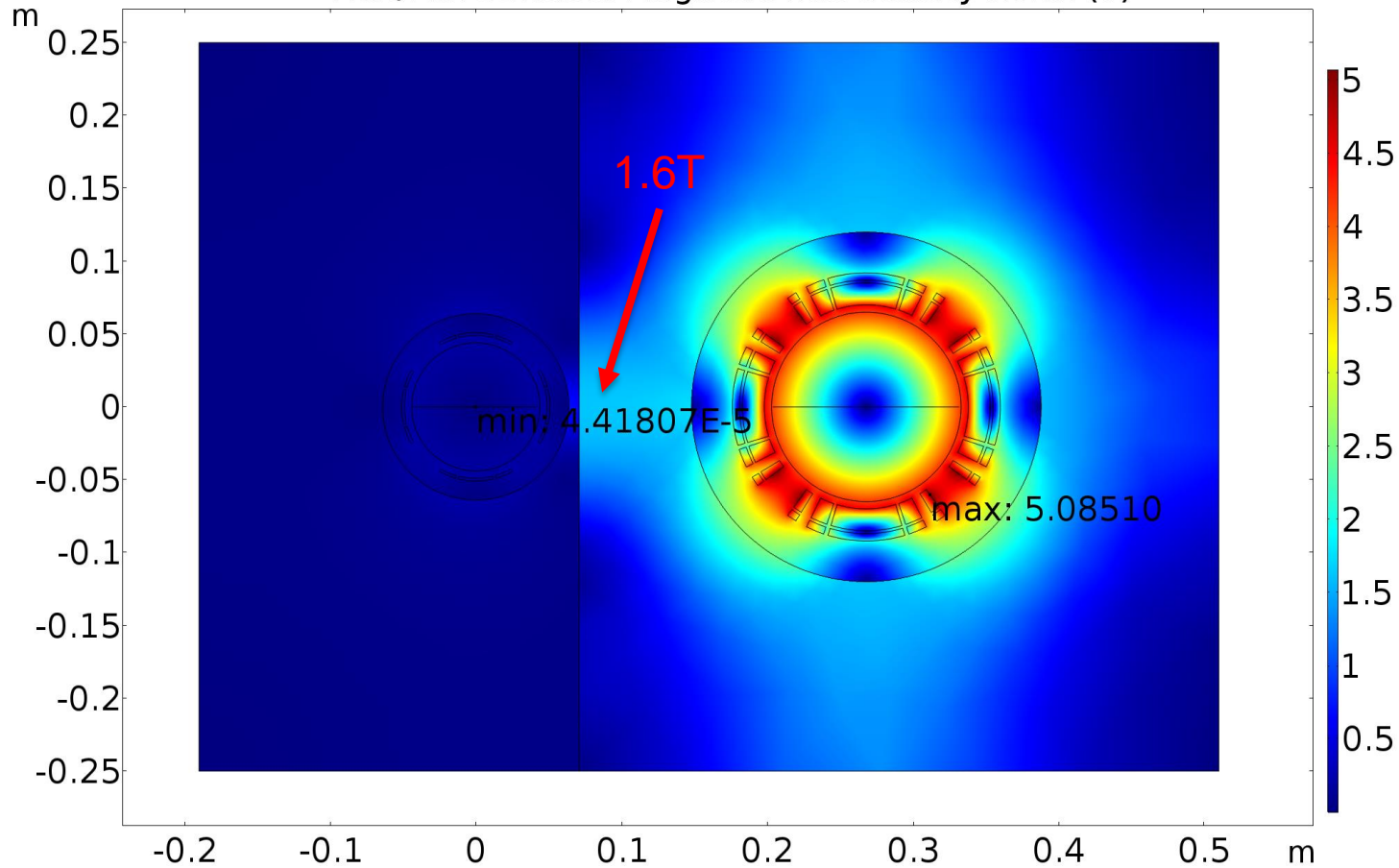
# Magnetization



# Gradient Quality Q1APF\_e

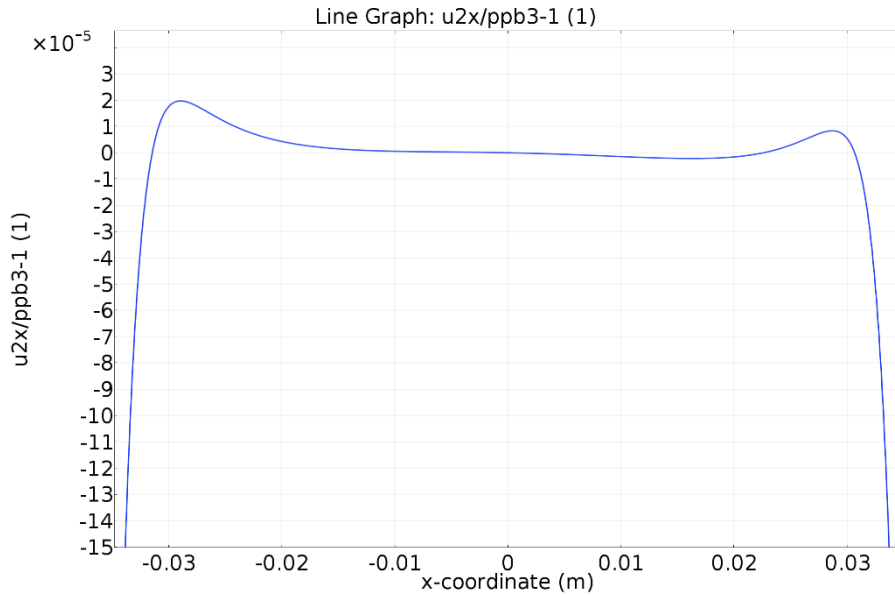


Surface: Magnetic flux density norm (T)  
Max/Min Surface: Magnetic flux density norm (T)

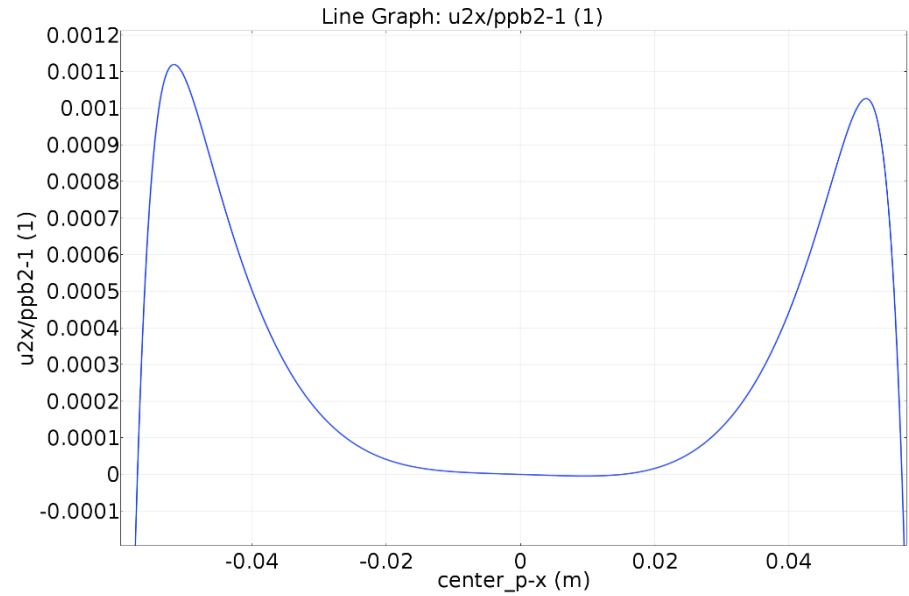


# Gradient Qualities

## Q1BPF\_e

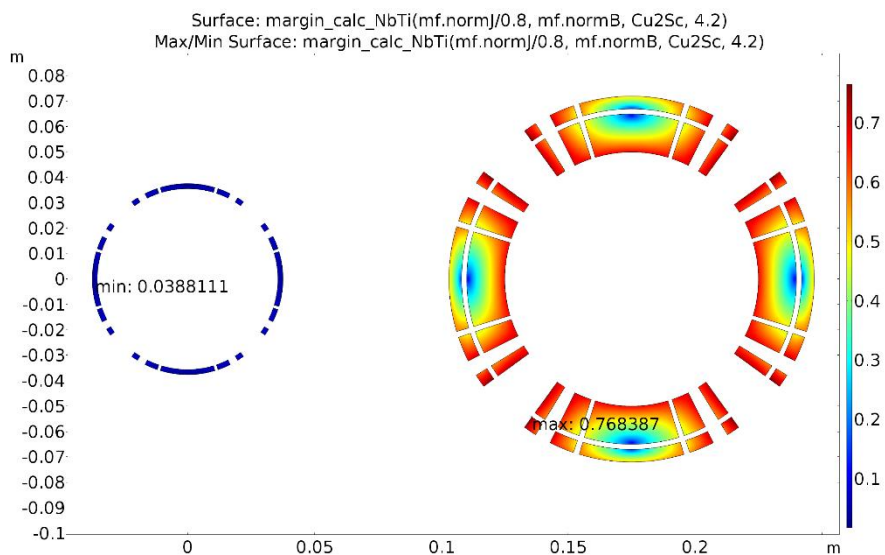


## Q1BPF\_h

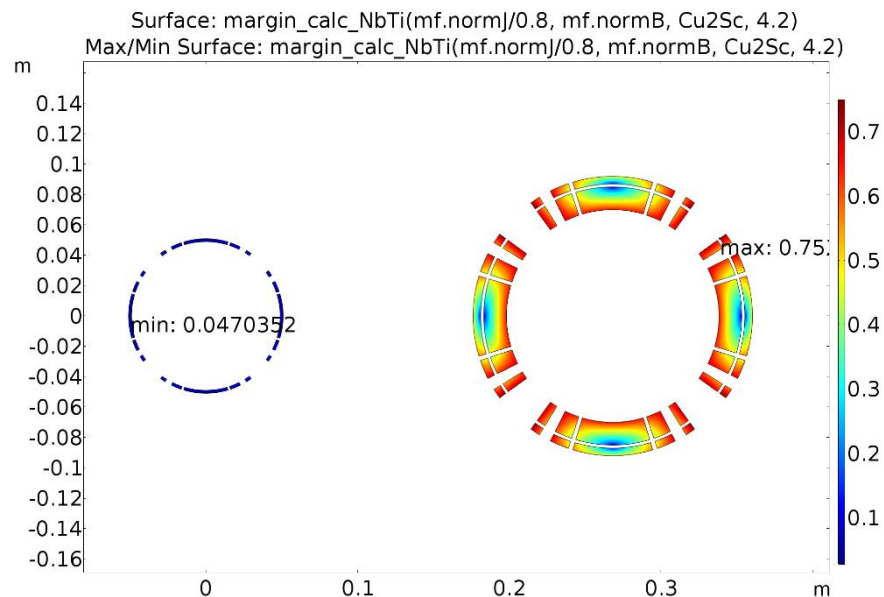


No crosstalk – no issue

## Q1APF



## Q1BPF



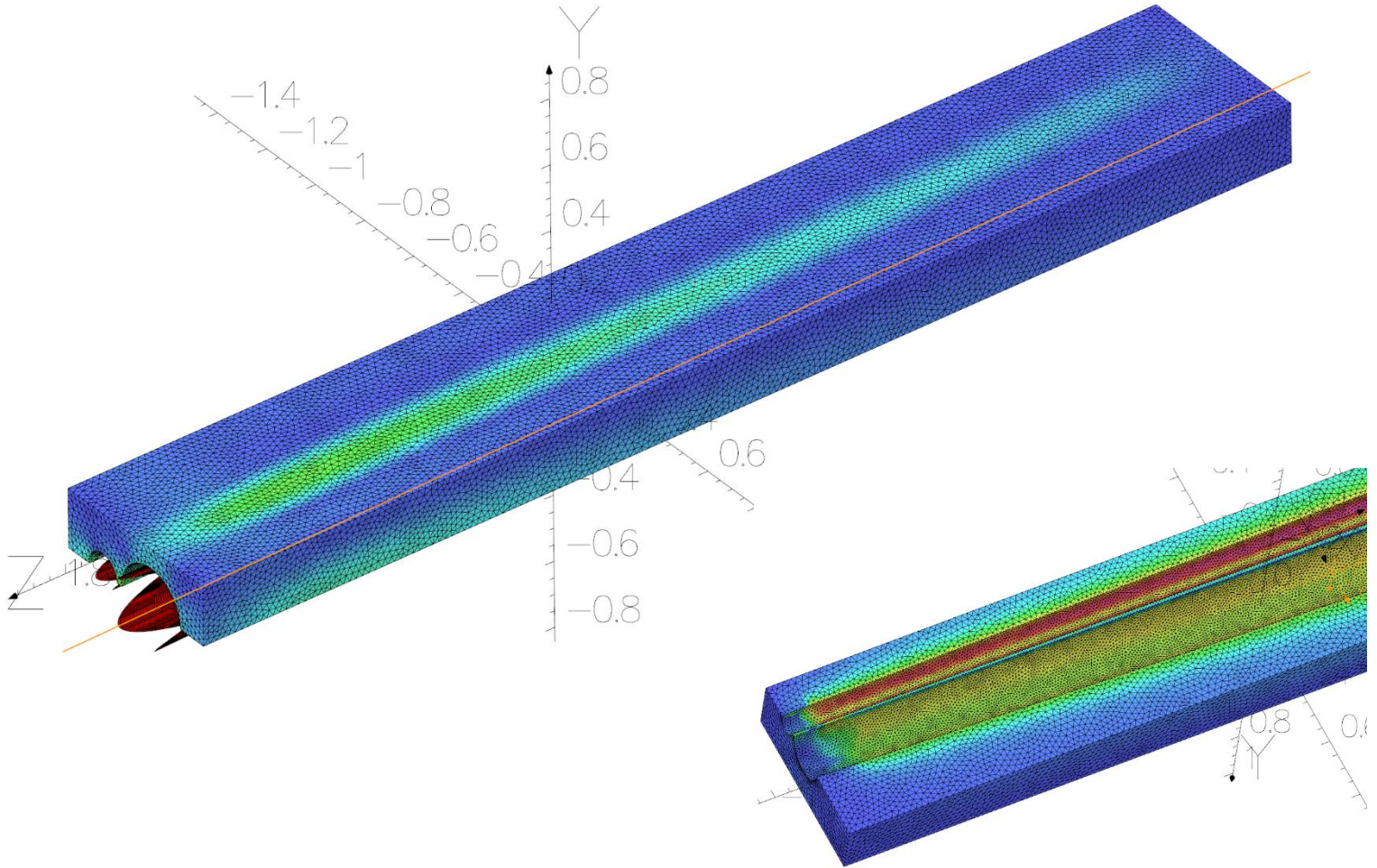
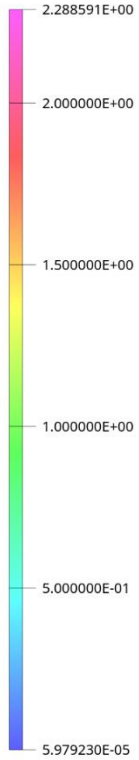
Margin: 25%  
Cu:Sc = 2  
PF 80%



## 3D Opera – tapered coils

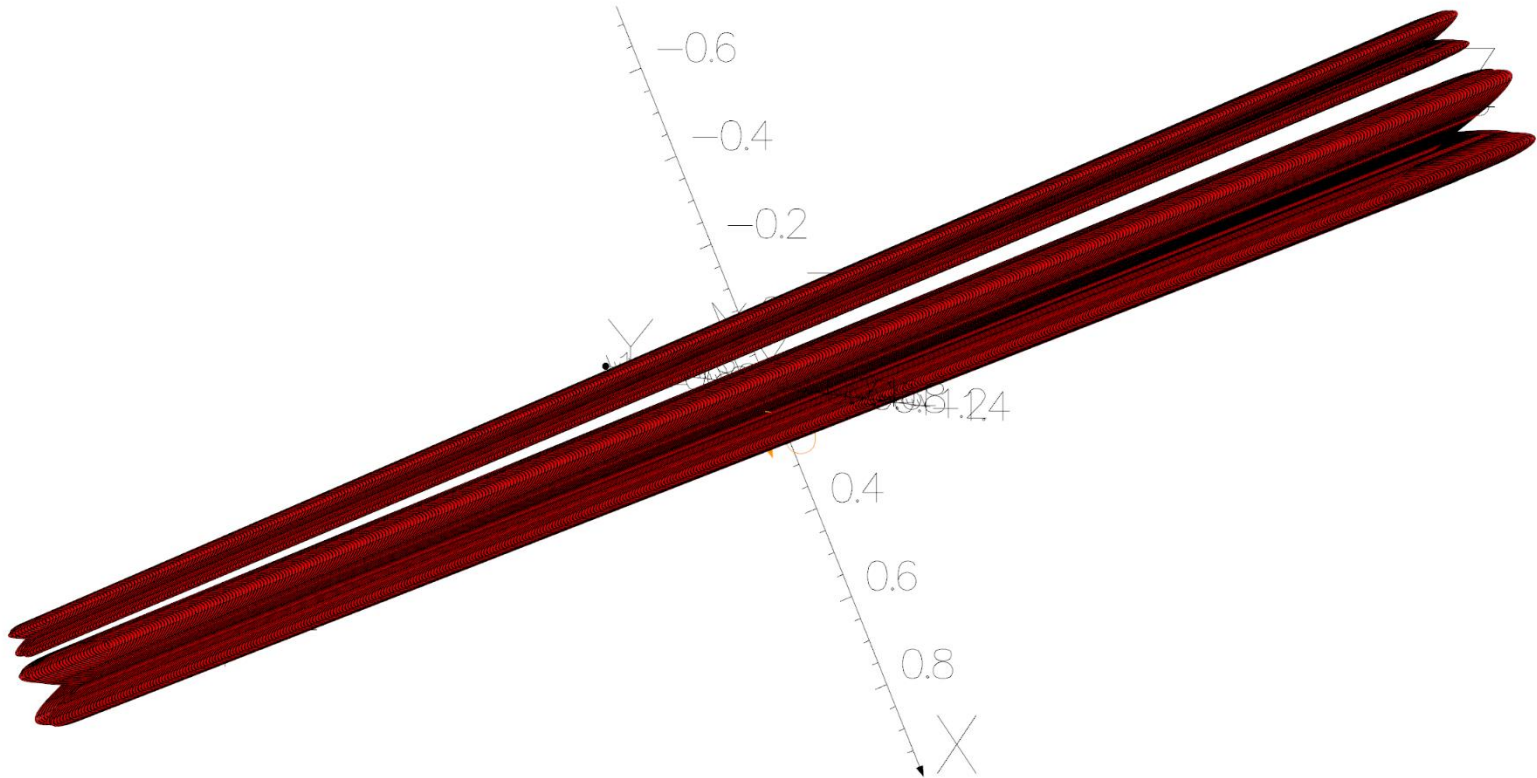
27/Jul/2018 11:51:12

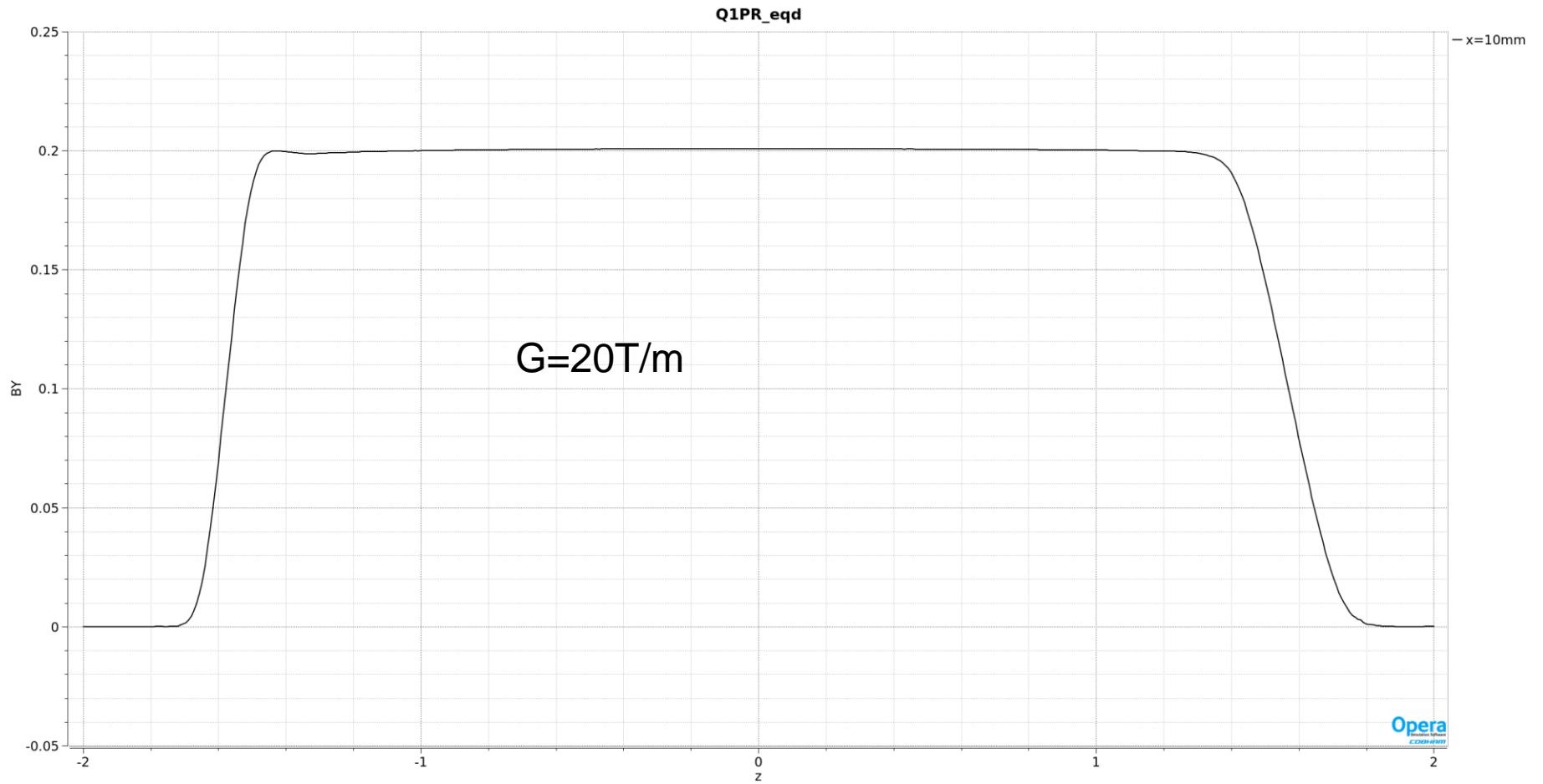
Surface contours: BMOD



# Tapered Helical Coils

27 Jul/2018 12:00:09





# Field Hadrons

