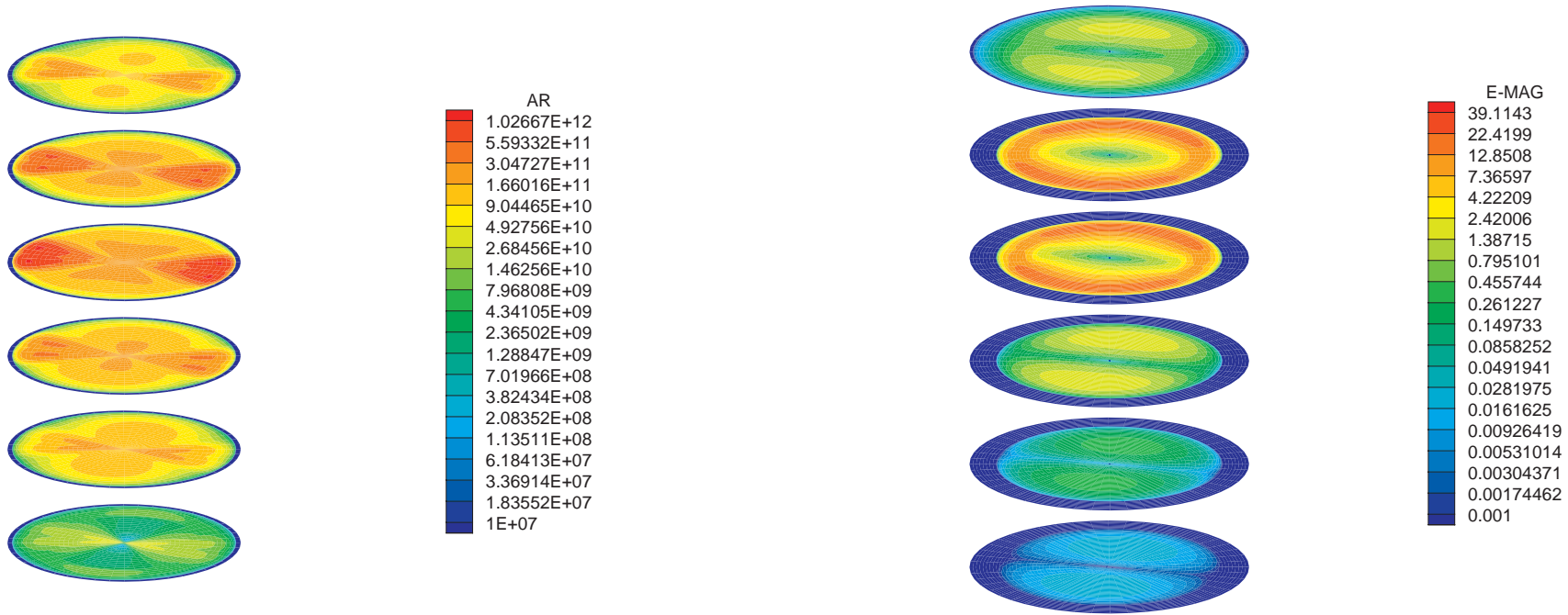


# Static Magnetic Field (B=600 G), Nagoya Type III Coil

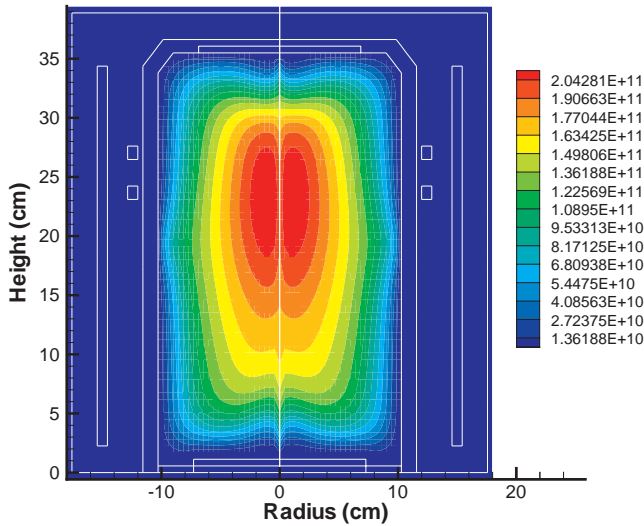


Argon Ion Density ( $\text{cm}^{-3}$ )

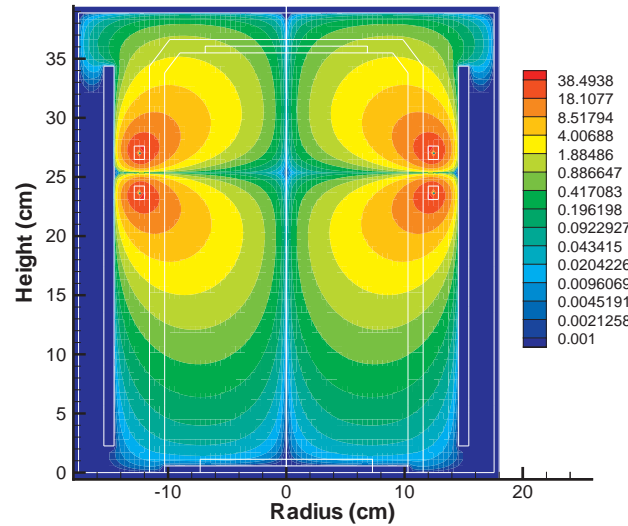
Electric Field Total Magnitude  
(Log V/cm)

- With the addition of a magnetostatic field, power deposition extends downstream away from the coils.

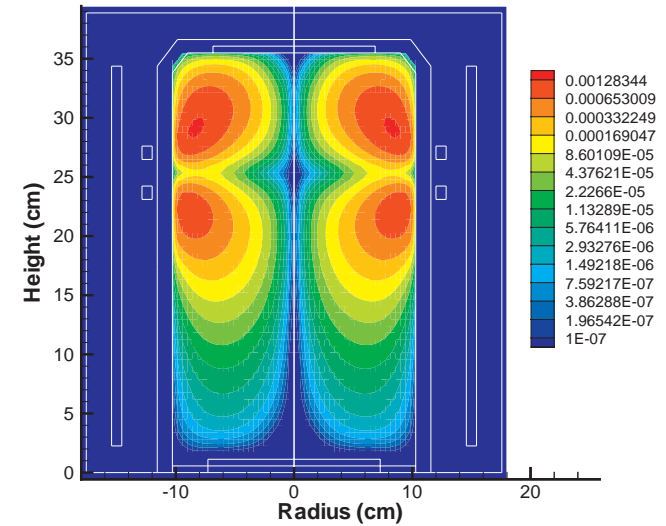
# Static Magnetic Field (B=600 G), Nagoya Type III Coil



Argon Ion Density ( $\text{cm}^{-3}$ )

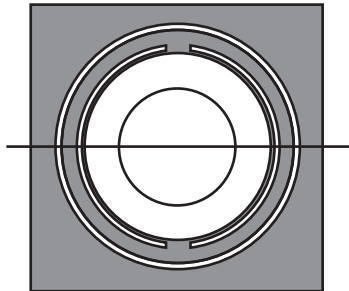


Electric Field Total Magnitude  
(Log V/cm)



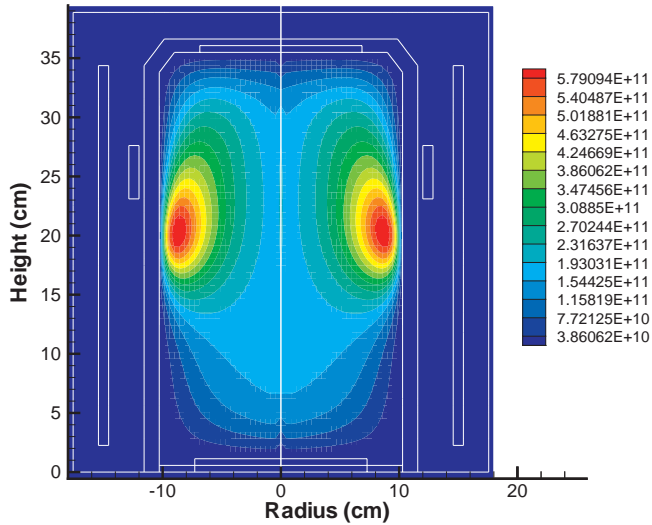
Total Power Deposition  
(Log Watt/ $\text{cm}^{-3}$ )

Top view:

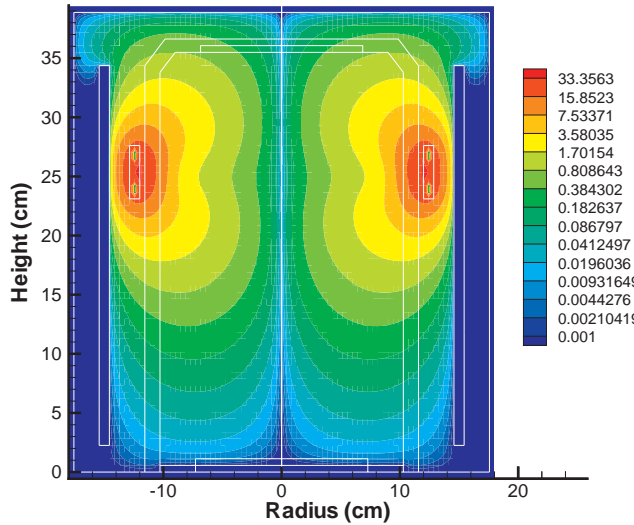


- With the addition of a magnetostatic field, power deposition extends downstream away from the coils.
- Enhanced power deposition near z-component of the coils.

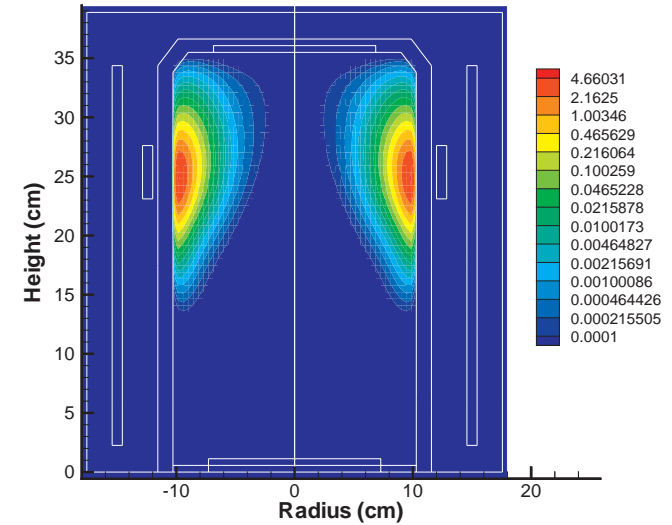
# Static Magnetic Field (B=600 G), Nagoya Type III Coil



Argon Ion Density ( $\text{cm}^{-3}$ )

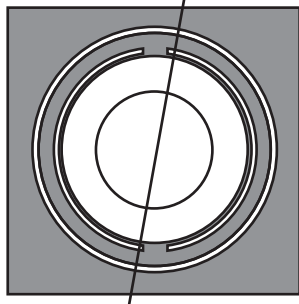


Electric Field Total Magnitude (Log V/cm)



Total Power Deposition (Log Watt/ $\text{cm}^{-3}$ )

Top view:



- With the addition of a magnetostatic field, power deposition extends downstream from the coils.
- The addition of a  $B_z$  magnetic field results in the power deposition mostly being near the  $z$  component of the coil.