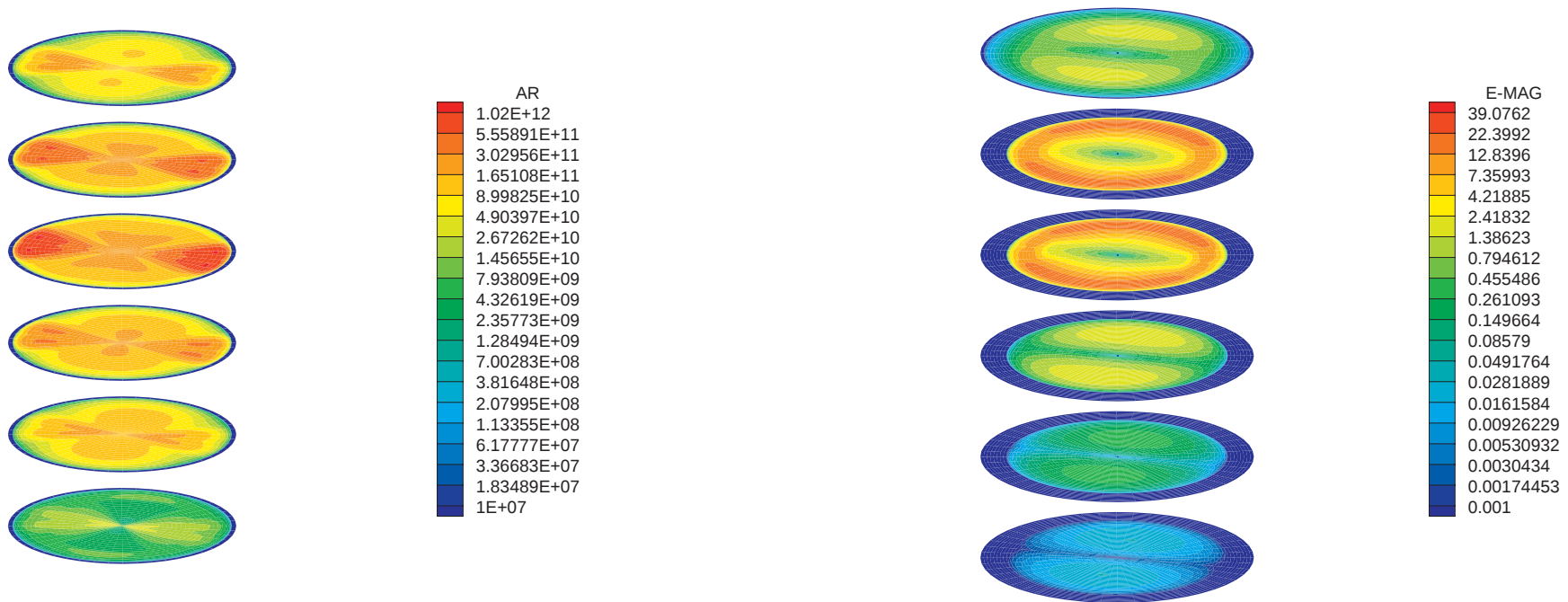


Static Magnetic Field ($B=300$ G), Nagoya Type III Coil

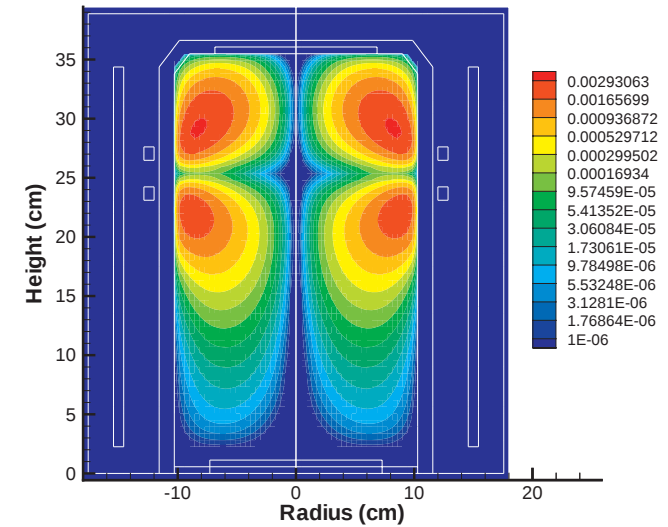
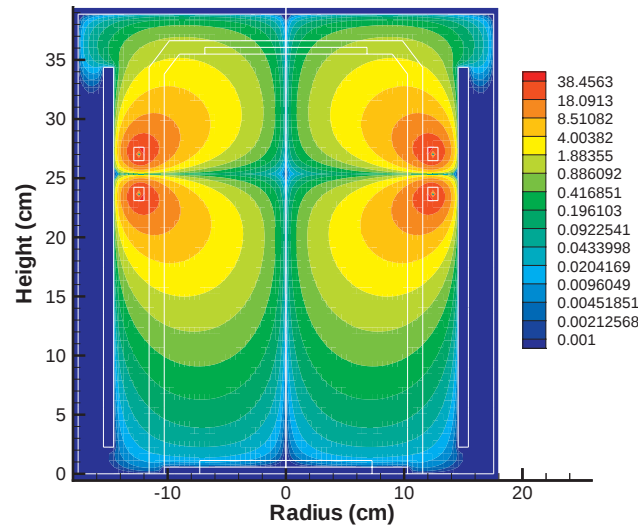
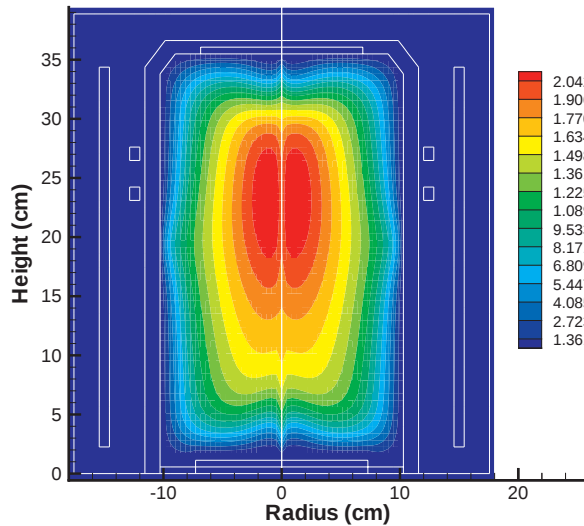


Argon Ion Density (cm⁻³)

**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=300 G), Nagoya Type III Coil

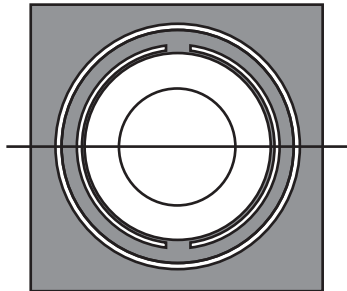


Argon Ion Density (cm^{-3})

Electric Field Total Magnitude
(Log V/cm)

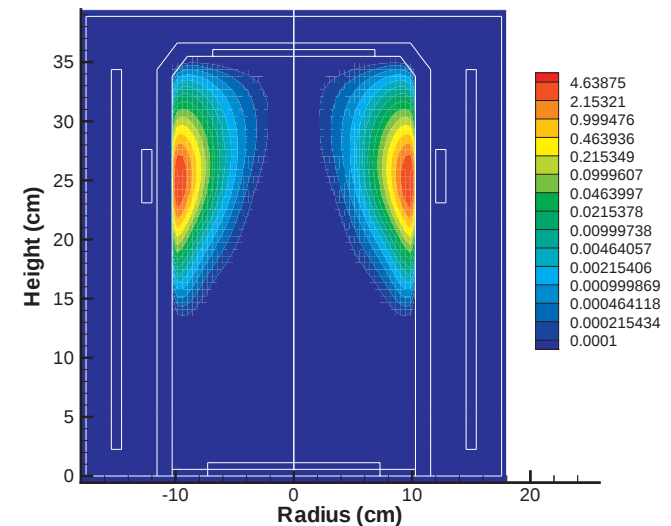
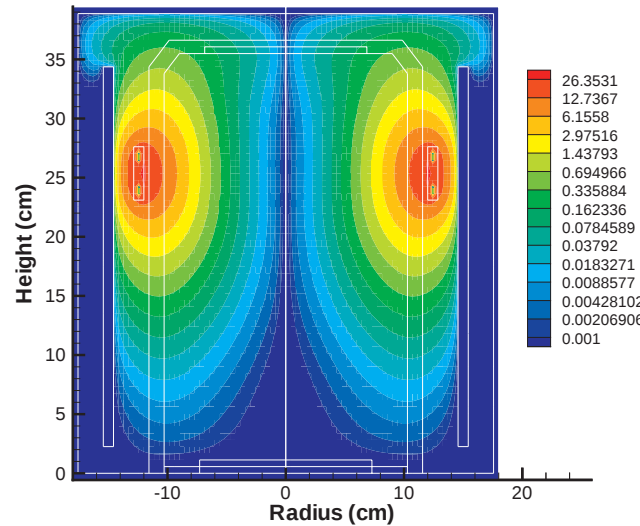
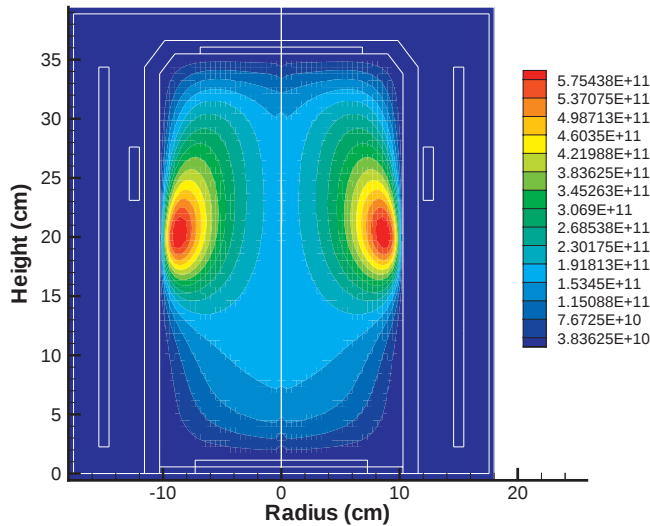
Total Power Deposition
(Log Watt/ cm^{-3})

Top view:



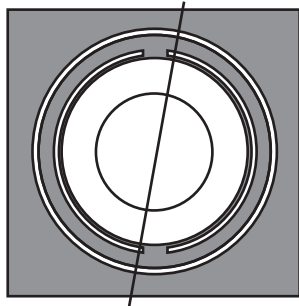
- With the addition of a magnetostatic field, power deposition extends downstream from the coils.
- Power deposition near the theta component of the coils is reduced.

Static Magnetic Field (B=300 G), Nagoya Type III Coil



Argon Ion Density (cm^{-3}) Electric Field Total Magnitude (Log V/cm) Total Power Deposition (Log Watt/ 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.