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Wall Thickness and RF Penetrations

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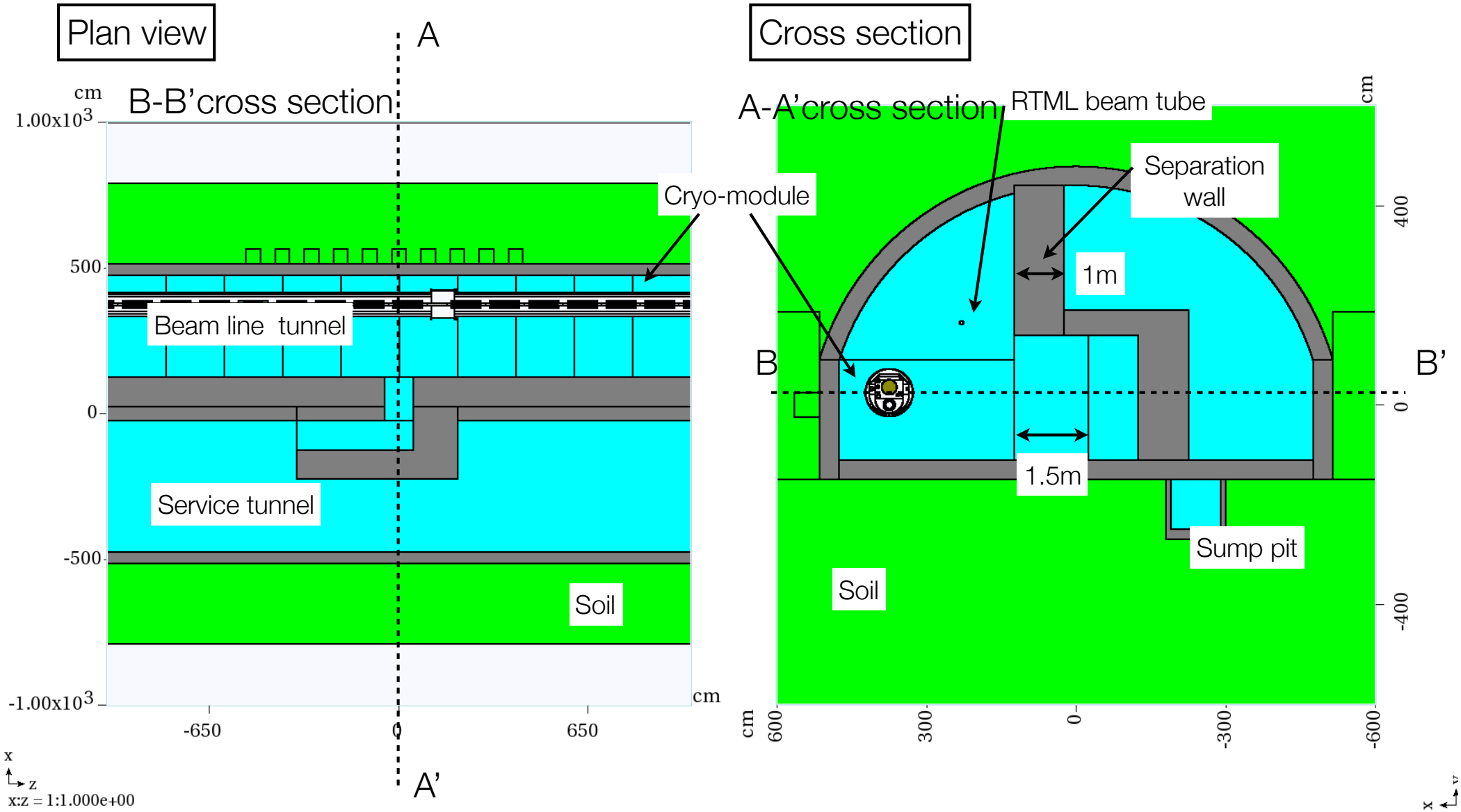
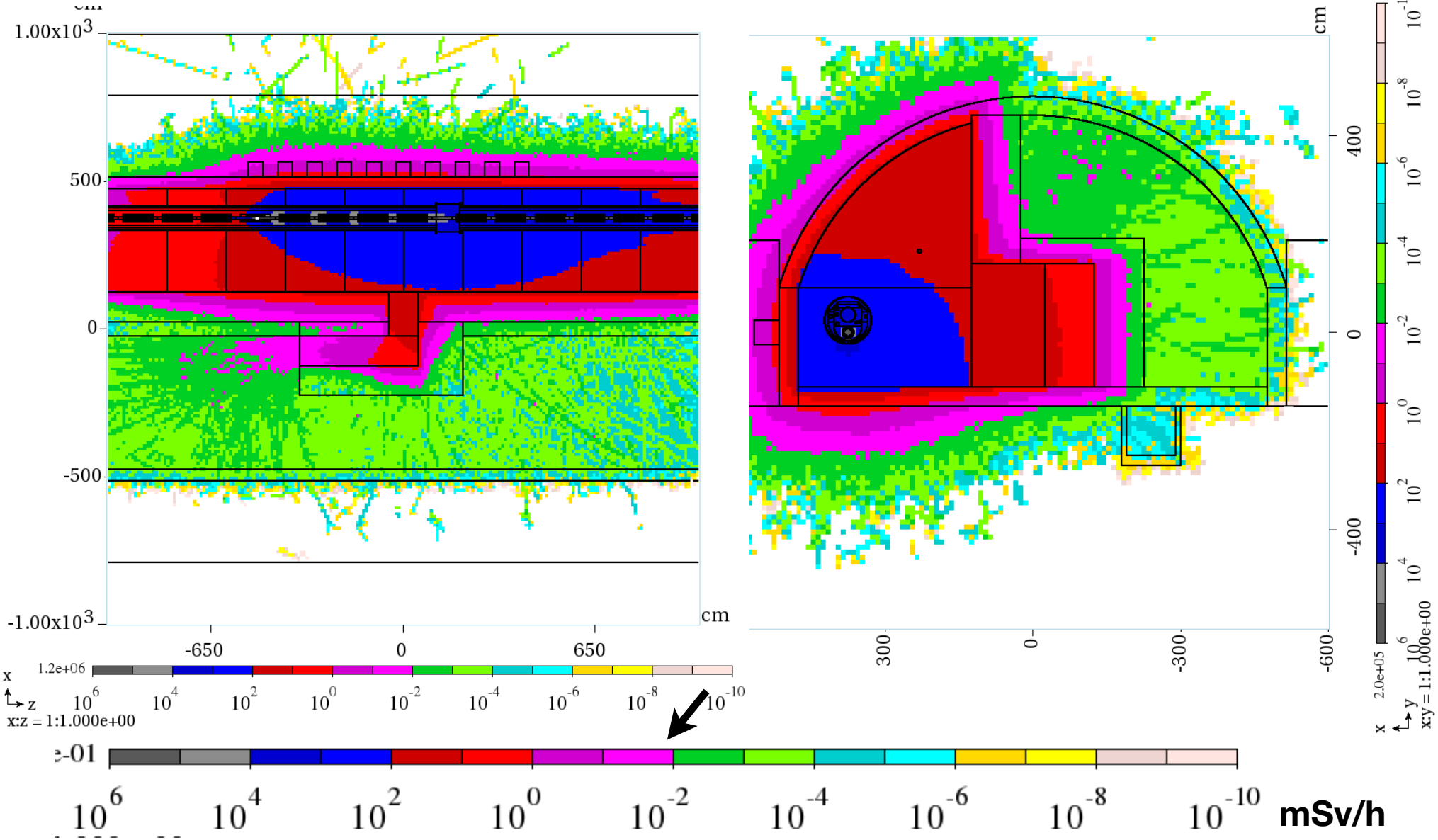
ML simulation model



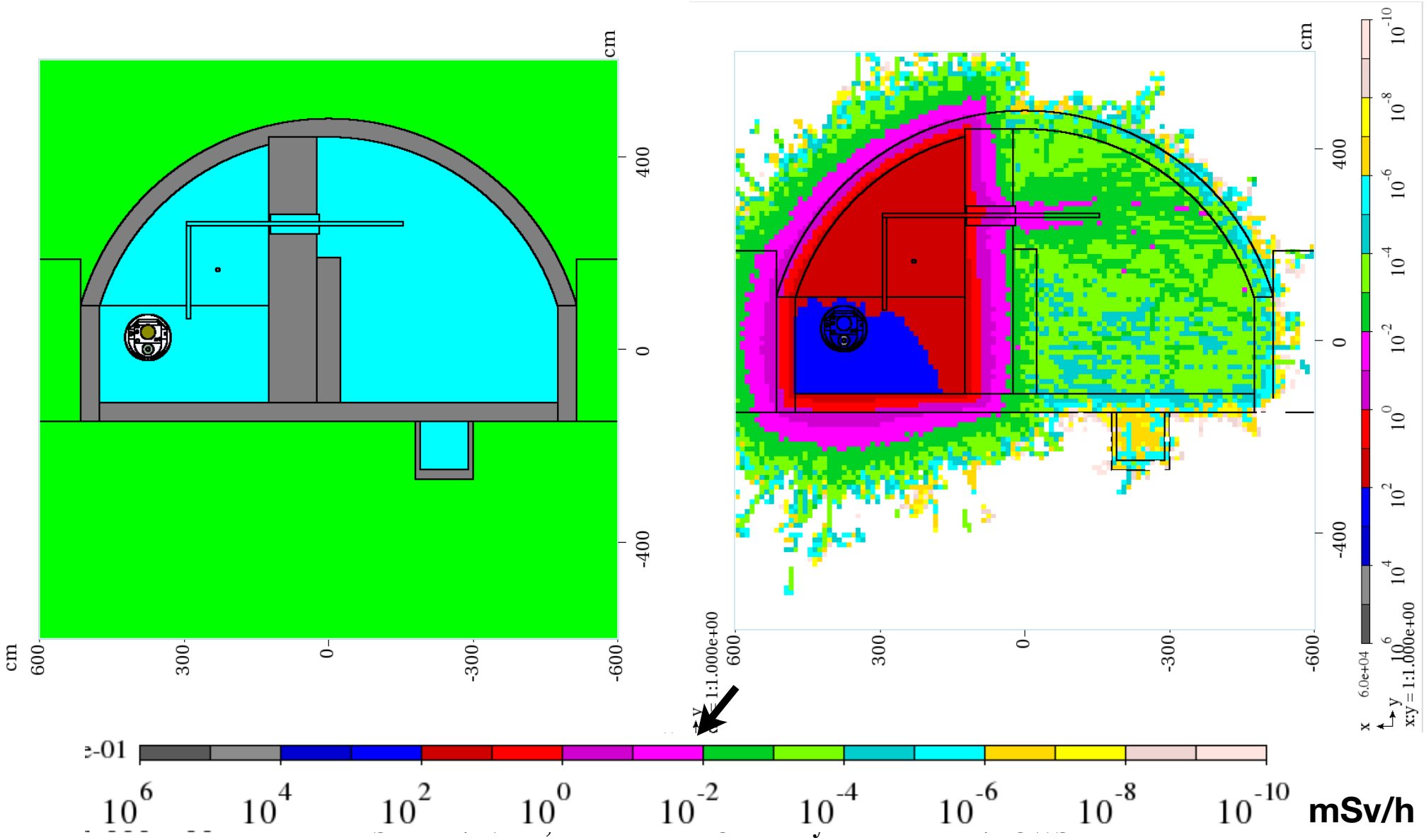
Dose rate for dark current (Access)

Normal loss : 6.875e10eps (50nA eq.) due to dark current



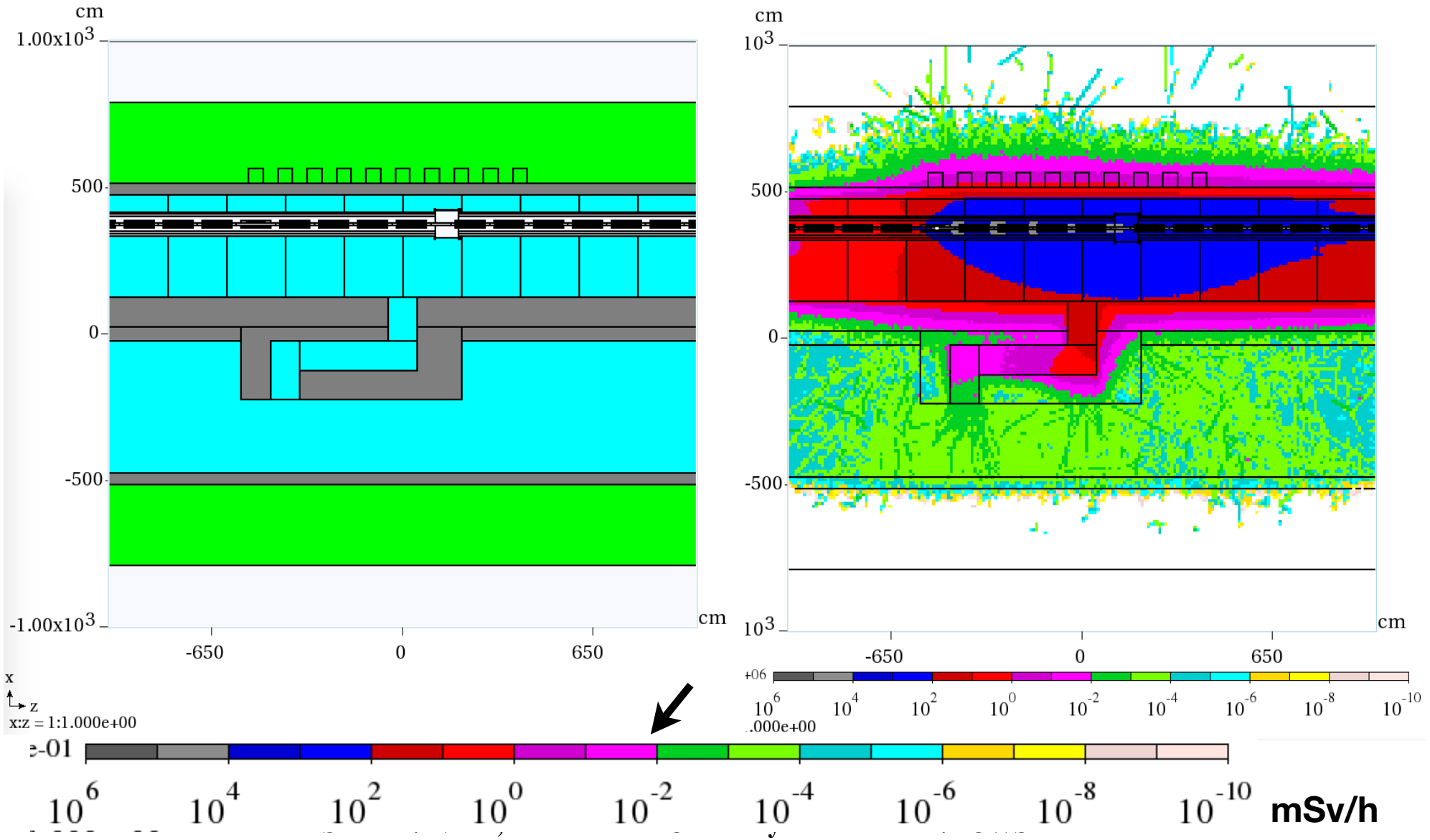
Dose rate for Dark current (Waveguide)

Normal loss : 6.875e10eps (50nA eq.) due to dark current



Dose rate for Dark current (Waveguide)

Normal loss : 6.875e10eps (50nA eq.) due to dark current



Conclusion

- Thickness of Shield wall to protect personnel from dark current, including access between tunnels and cable and RF penetrations
  - *Access between tunnels, Plan A*
  - *RF penetration. No cable penetration*
  - *Evaluated under ML shield wall of 1.5 m in thickness*
- Things to do
  - *Make a list of penetrations, interval, diameter and filled material, design access between two areas*
  - *Find a place to confirm simulation results*