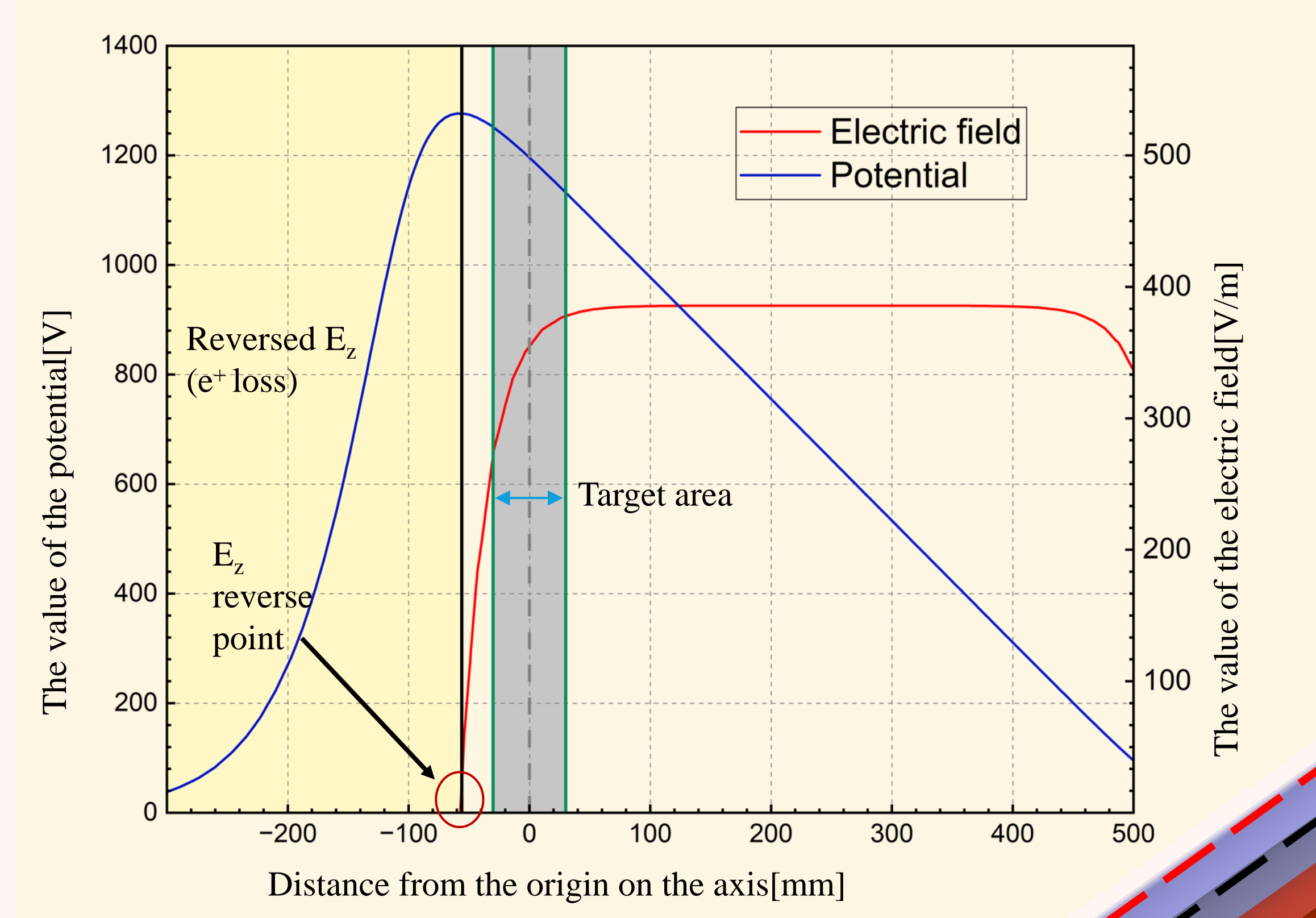
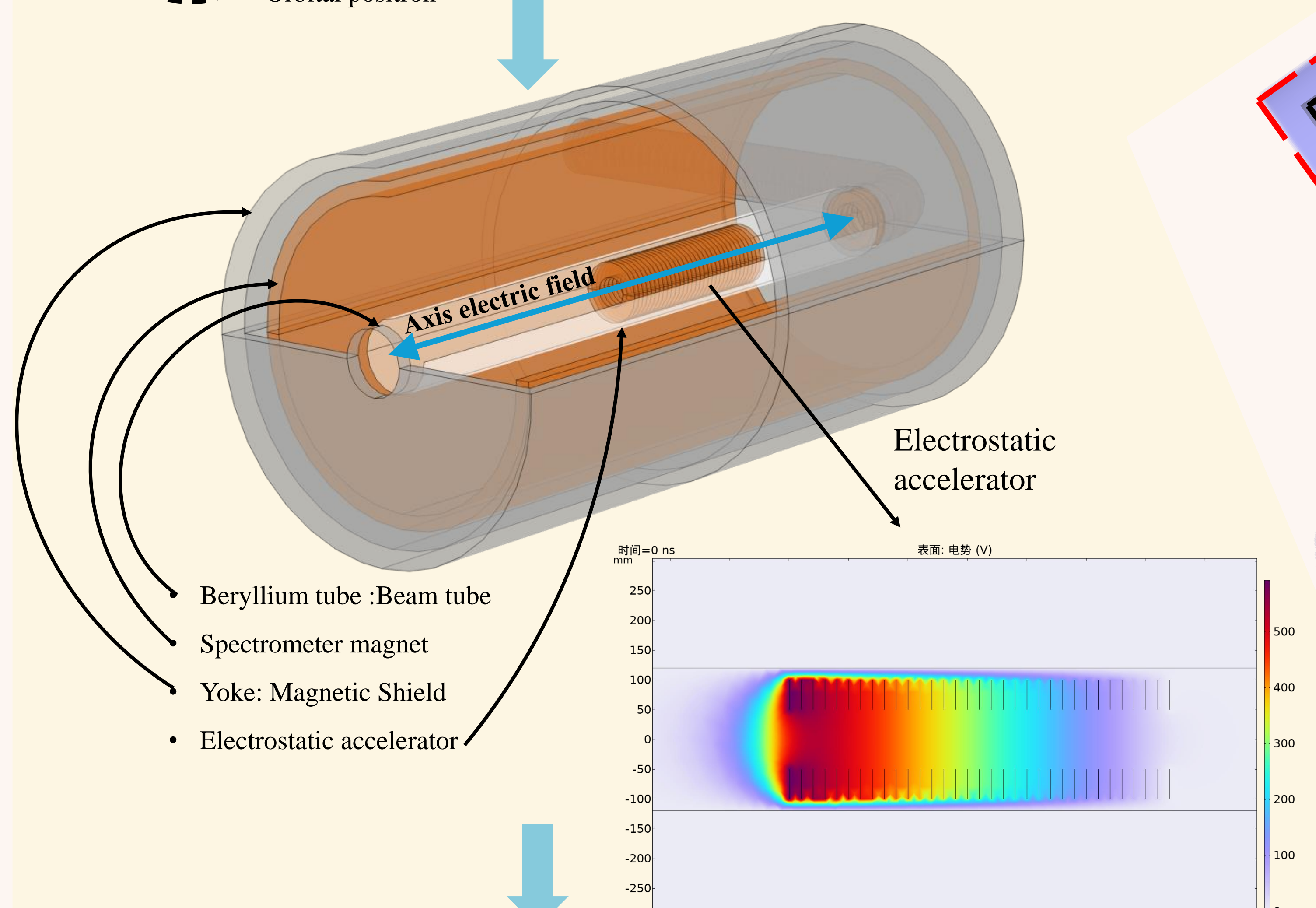
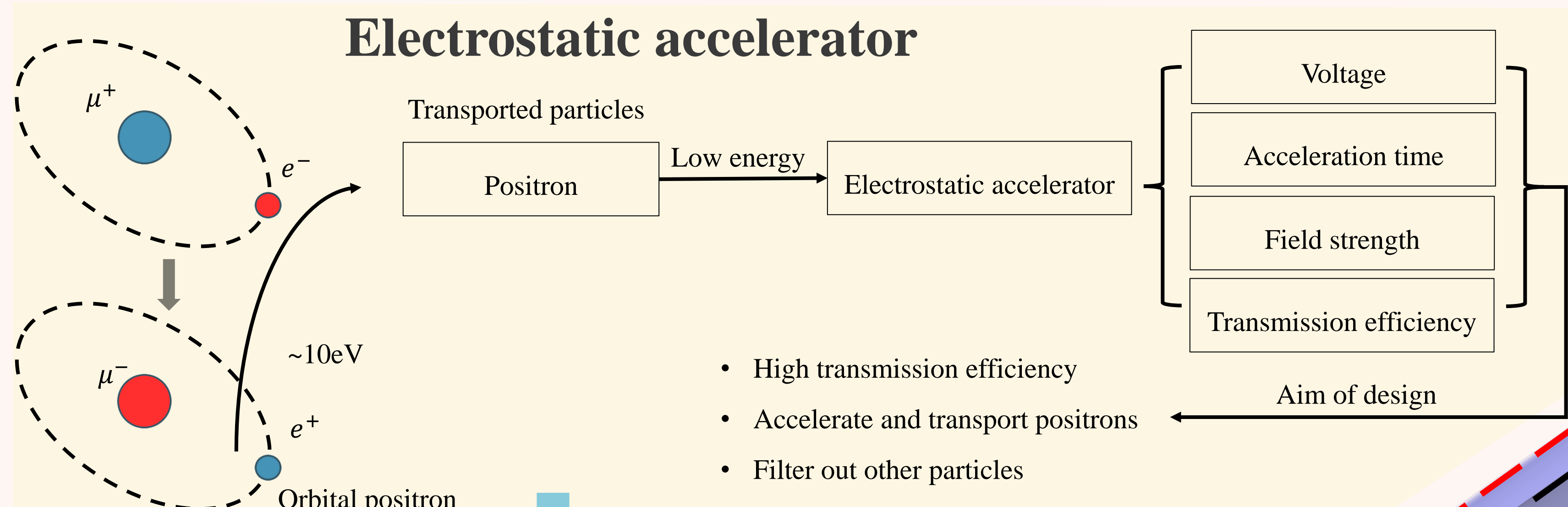
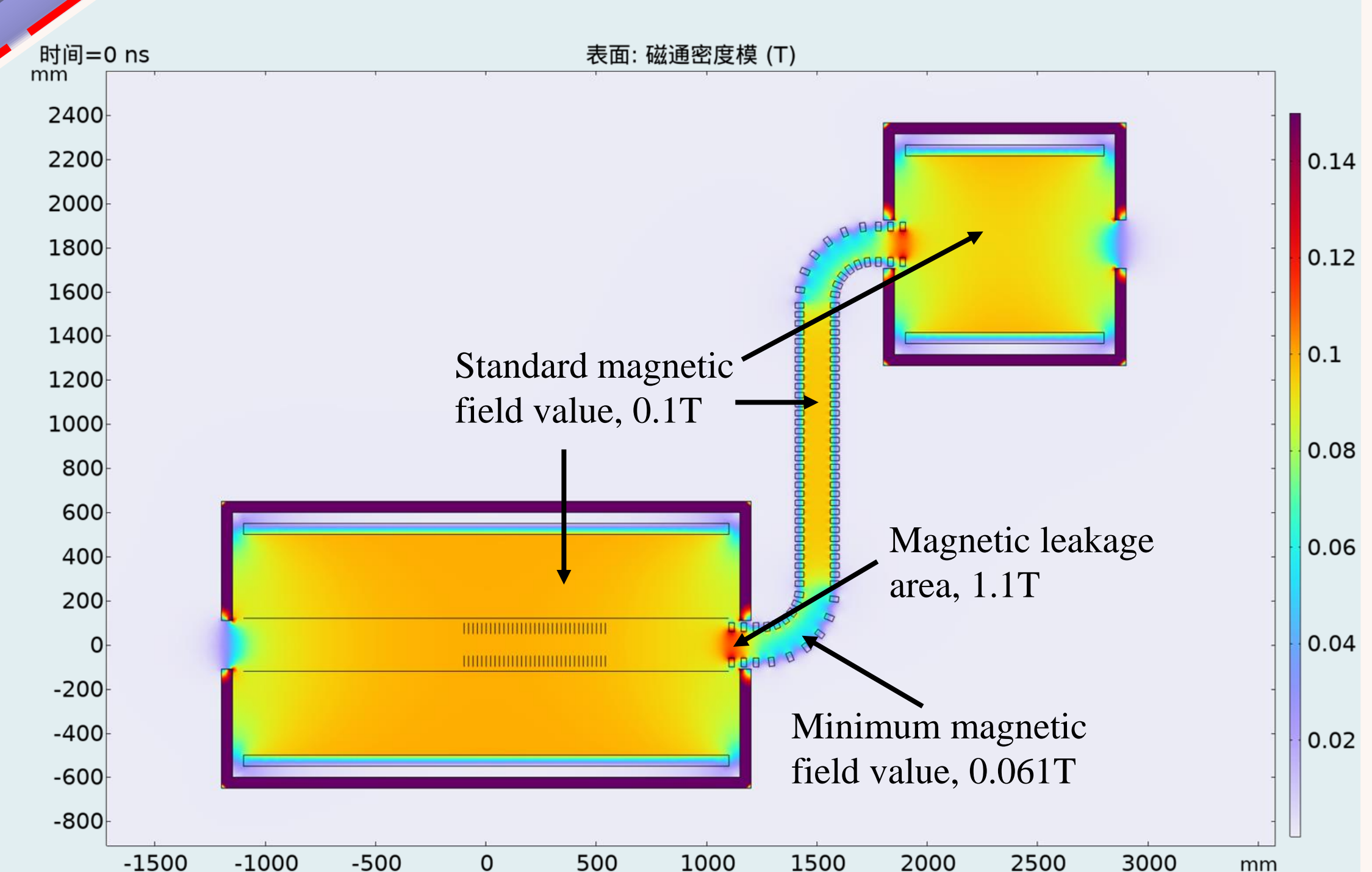
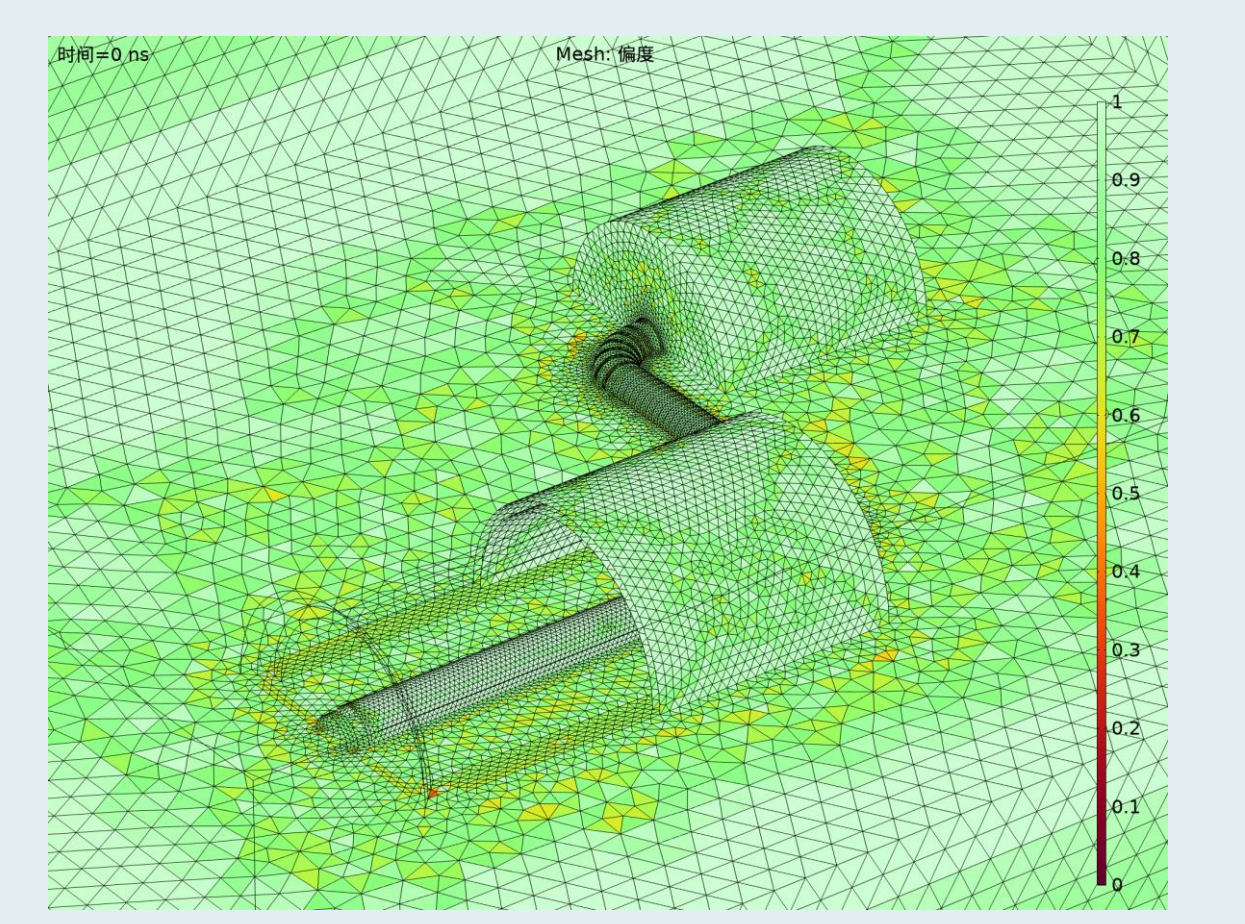
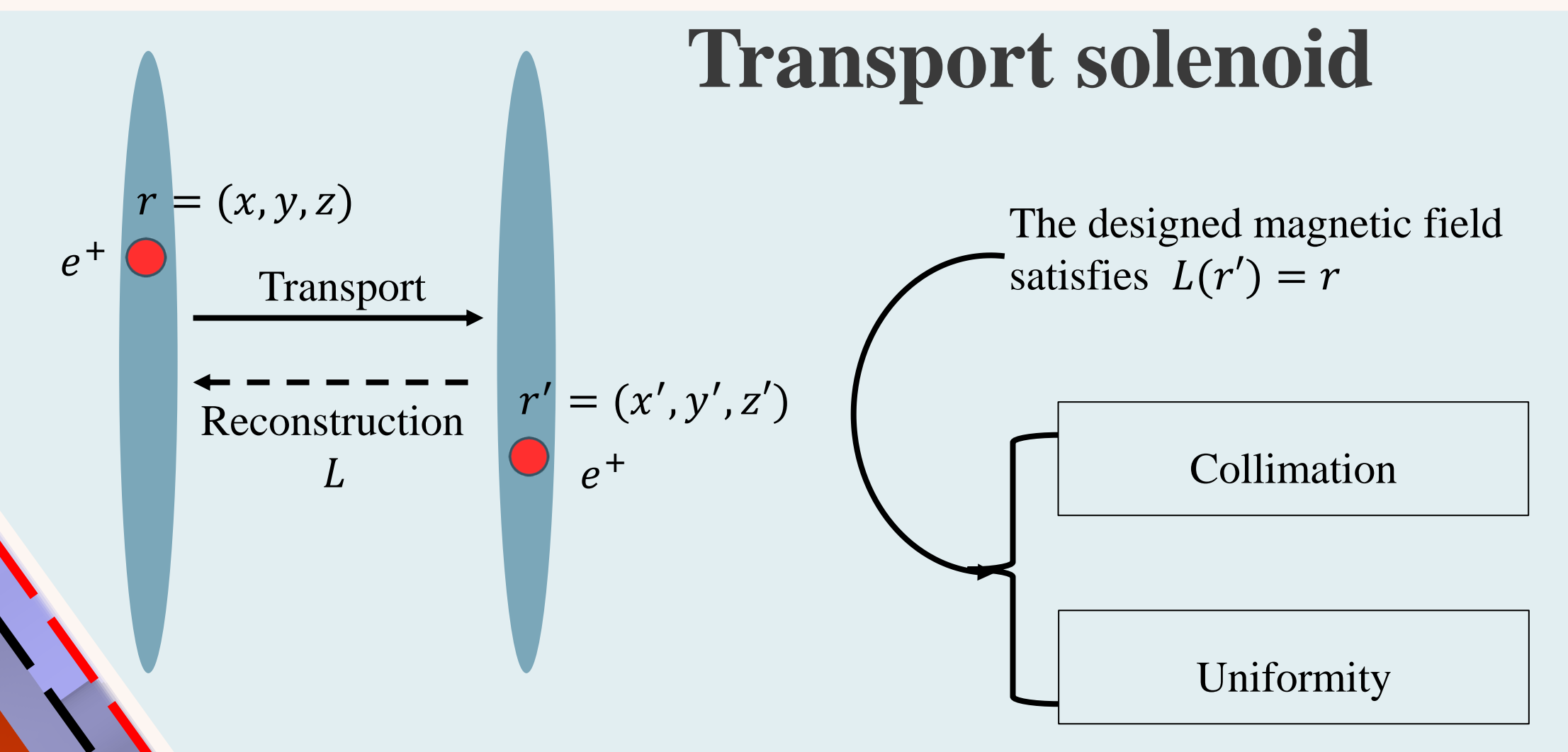


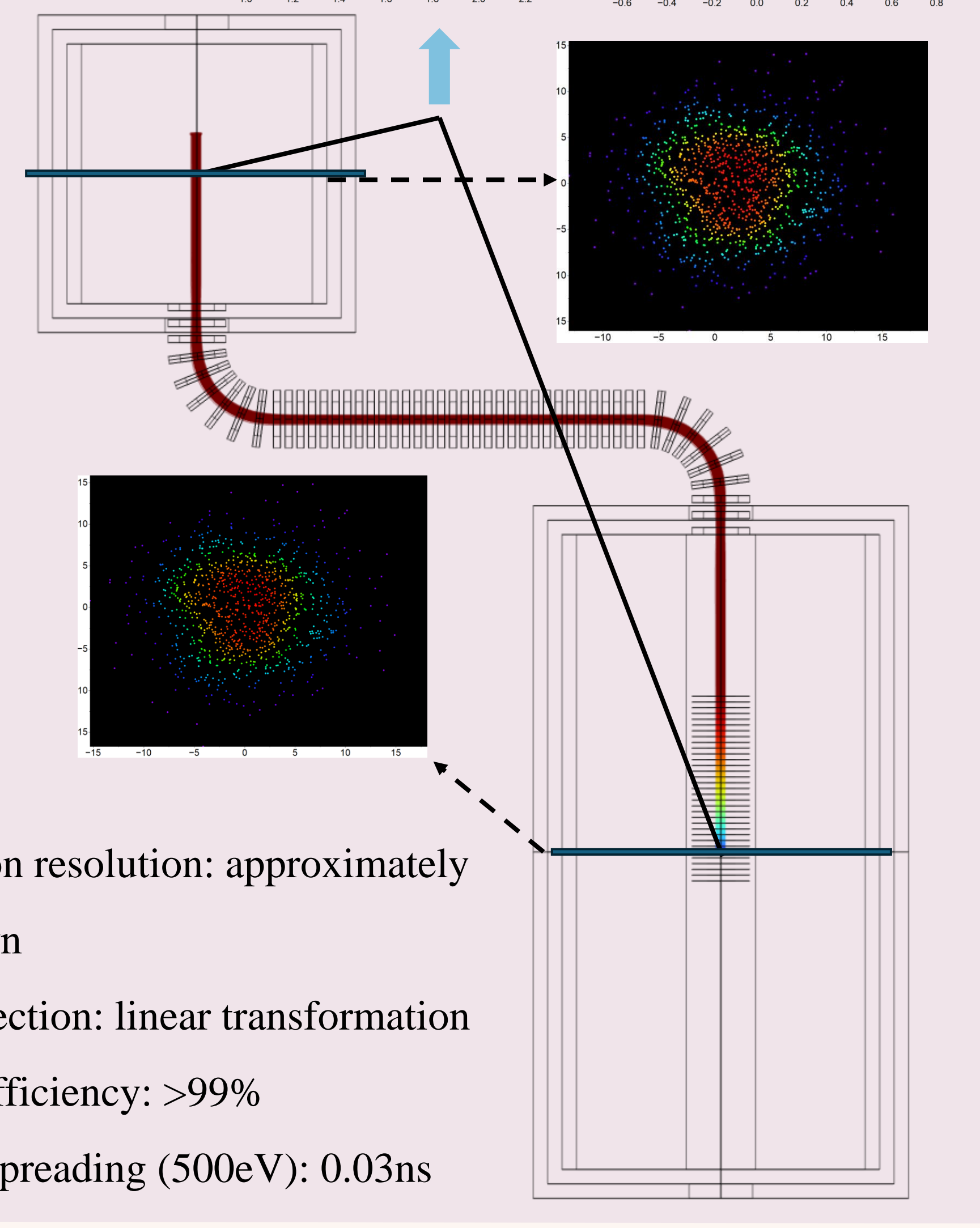
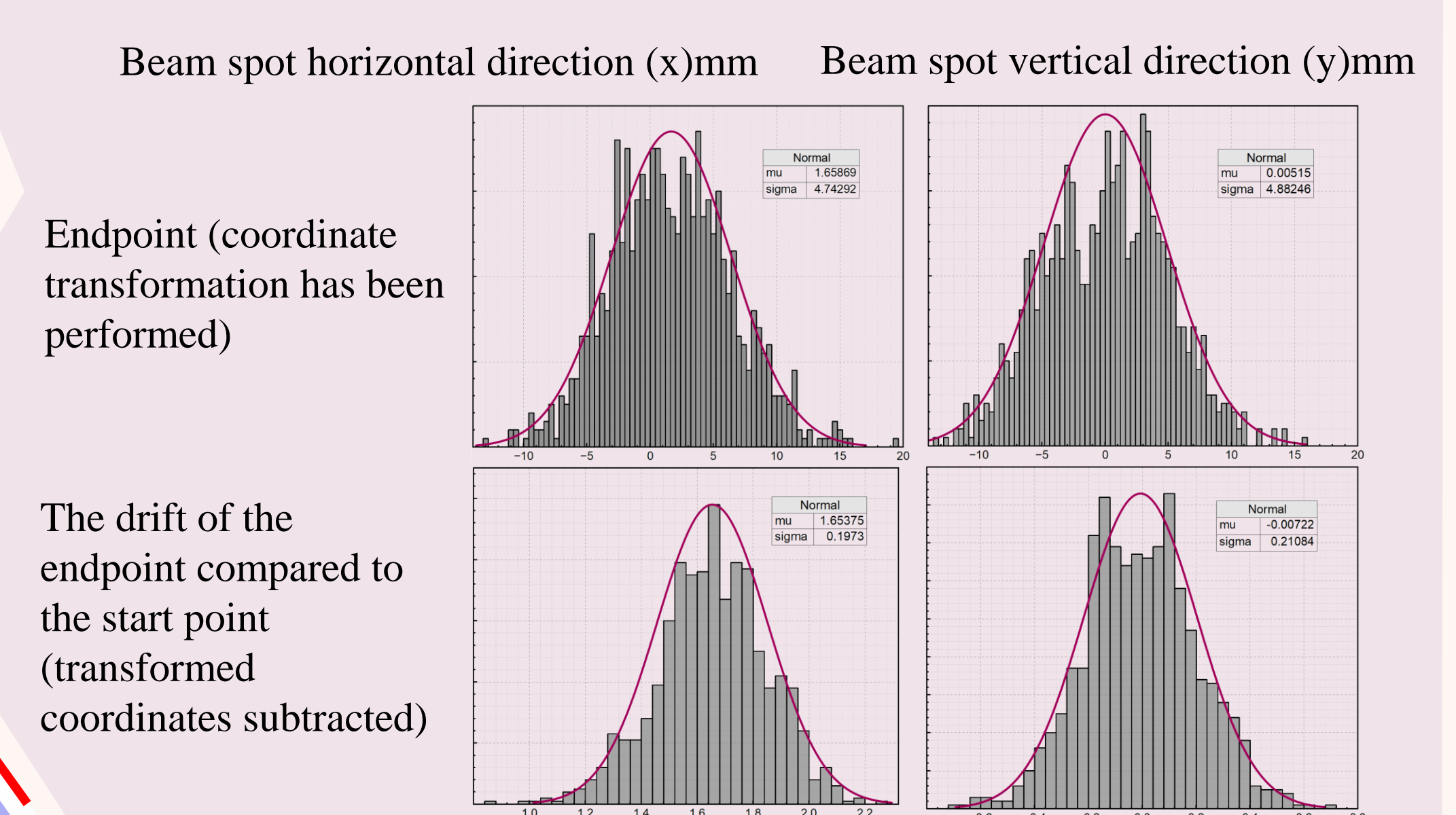
Electrostatic accelerator



Transport solenoid

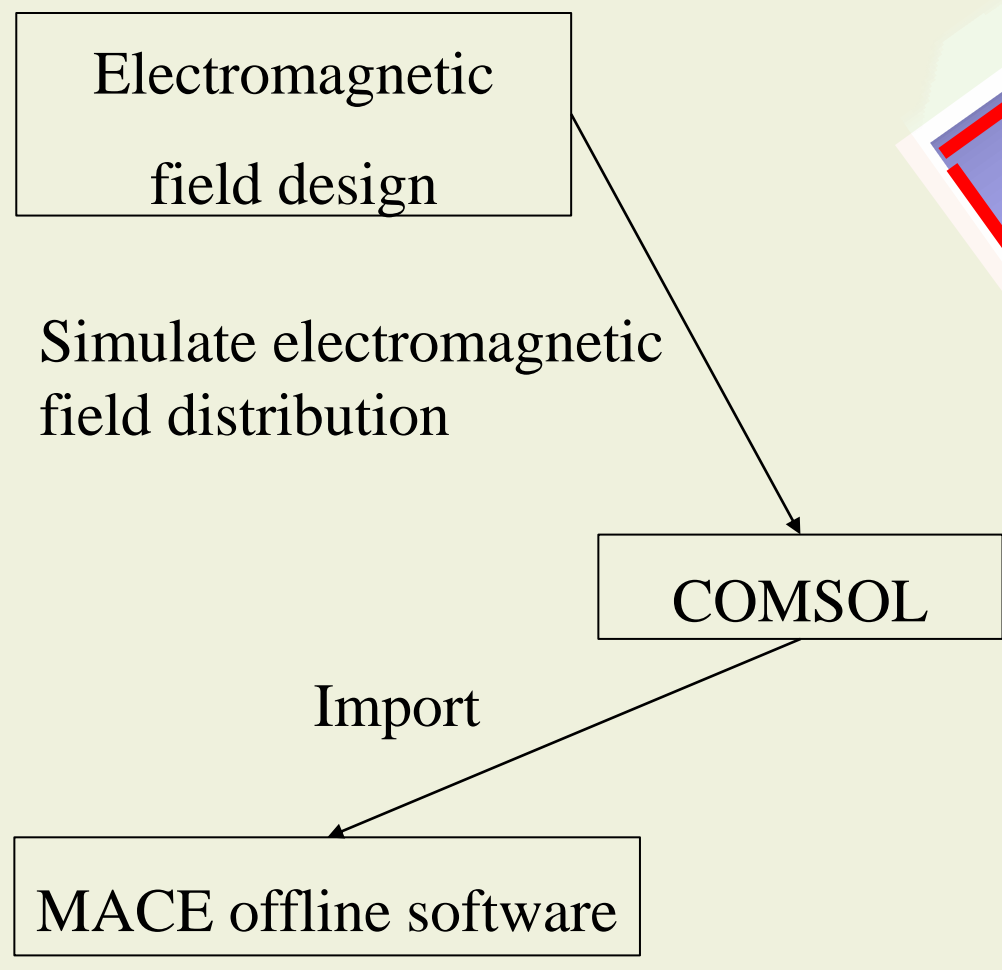


Transport simulation results



Summary and outlook

Research process:



Magnetic field indicators and plans:

1. Uniformity: optimize the coil spacing to weaken the magnetic lens phenomenon.
2. Collimation: achieve the goal by adjusting magnetic shielding, magnetic compensation, and geometry

Electric field indicators and plans:

1. Potential gradient: adjust the electrostatic accelerator
2. Signal loss rate: adjust the electrostatic accelerator
3. The lateral divergence of the electric field on the particles: maintain the current effect

References

[1] Bai, A.-Y., & others. (2022, March). Snowmass2021 Whitepaper: Muonium to antimuonium conversion. *Snowmass 2021*.
 [2] T. J. Roberts and D. M. Kaplan, "G4beamline simulation program for matter-dominated beamlines," *2007 IEEE Particle Accelerator Conference (PAC)*, Albuquerque, NM, USA, 2007, pp. 3468-3470, doi: 10.1109/PAC.2007.4440461.