Current Status of Electrode Simulation

Kyoung-Hun Yoo



[Initial Beam]



Catching pbar











Catching pbar



Harmonic Potential Well









Harmonic Potential Well





Error between Data

Previous Design



Error (-2 \sim +2 cm) < 0.25 V in both cases



Moving Potential Well from Catching Trap to Manipulation Trap



Simulation moving potential well as length of one electrode. Applied voltages on each electrodes are slowly changed. Inner diameter of electrodes : 30 mm (Based on previous design). Moving Particles with Potential Well from Catching Trap to Manipulation Trap



After generating the beam distribution with equilibrium in harmonic well (in progress), moving particles with potential well will be simulated.

Ejecting Particles from Manipulation Trap



First, the beam distribution compressed by rotating wall will be generated (in progress). Next, ejecting compressed particles from manipulation trap will be simulated.

EBIS charge breeder for RISP

• Experimental hall for accelerator (KOREA Uni.)



Component of EBIS system



SC magnet for EBIS system



Test ion source module (Cs+1)

