DATA FOR MAGNETIC FIELDS LAB
(with Helmholtz Coils):

Helmholtz coil radius R = .1 meters
Number of winds in Helmholtz coil N = 125

Plate voltage V = 50 volts
the charges are electrons, so q =1.6×10^{-19}C
the current in the Helmholtz coil to get the beam to arc a radius of .01 m is:
     i = 2.4 amps
the constant μ_o = $4\pi \times 10^{-7}$