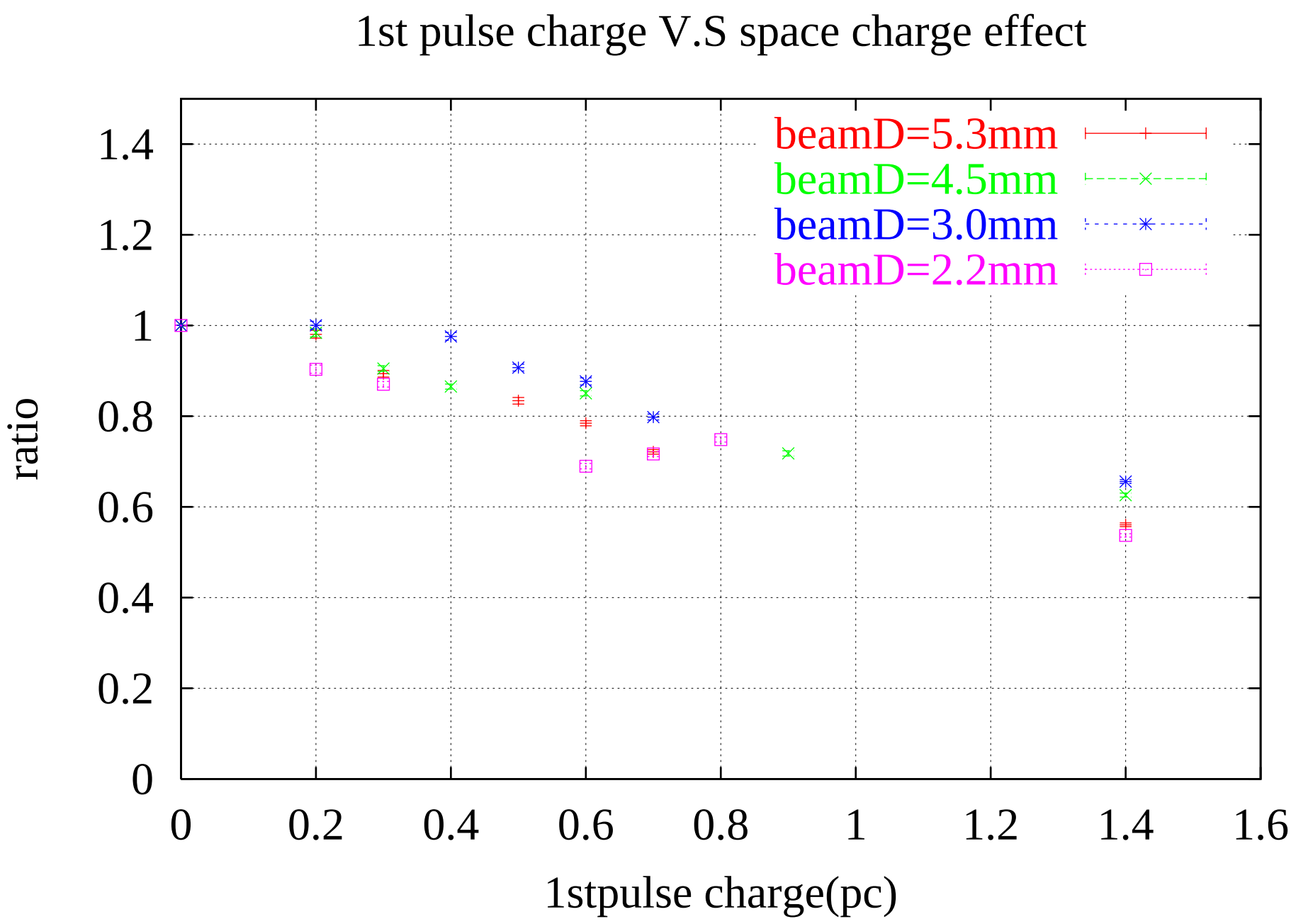
1st pulse charge V.S space charge effect
beamD=5.3mm
beamD=4.5mm
beamD=3.0mm
beamD=2.2mm
ratio
1stpulse charge(pc)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6