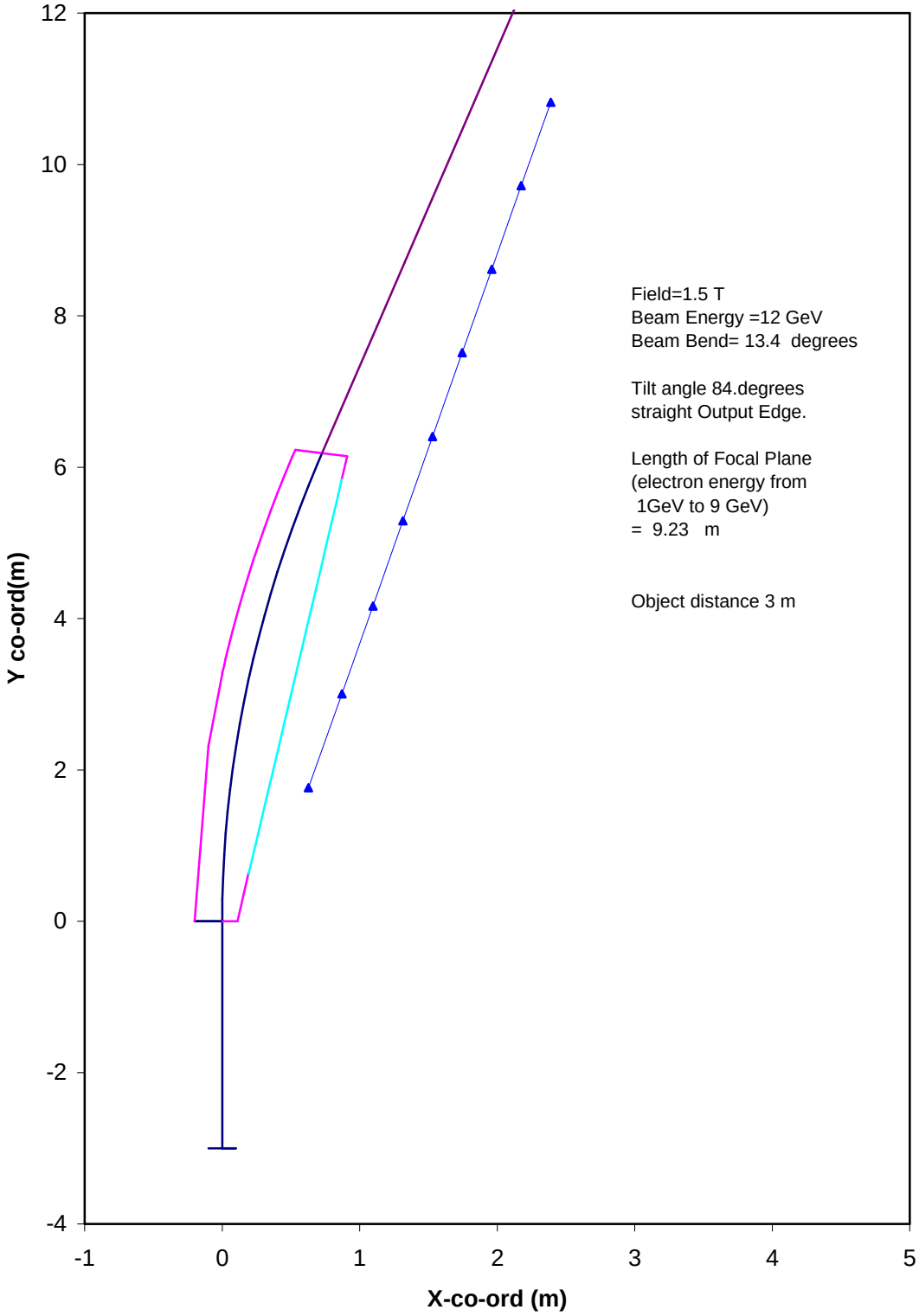
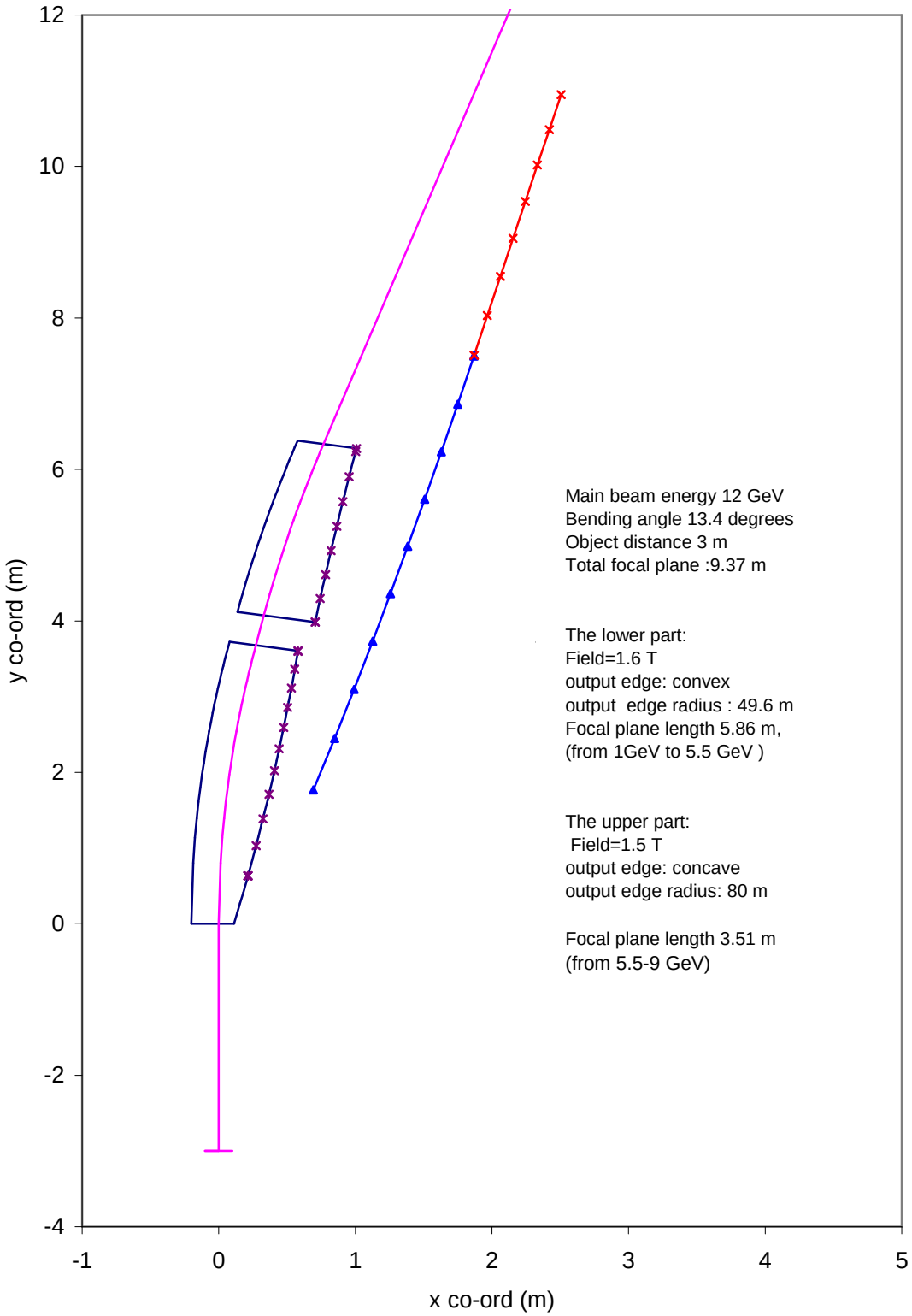
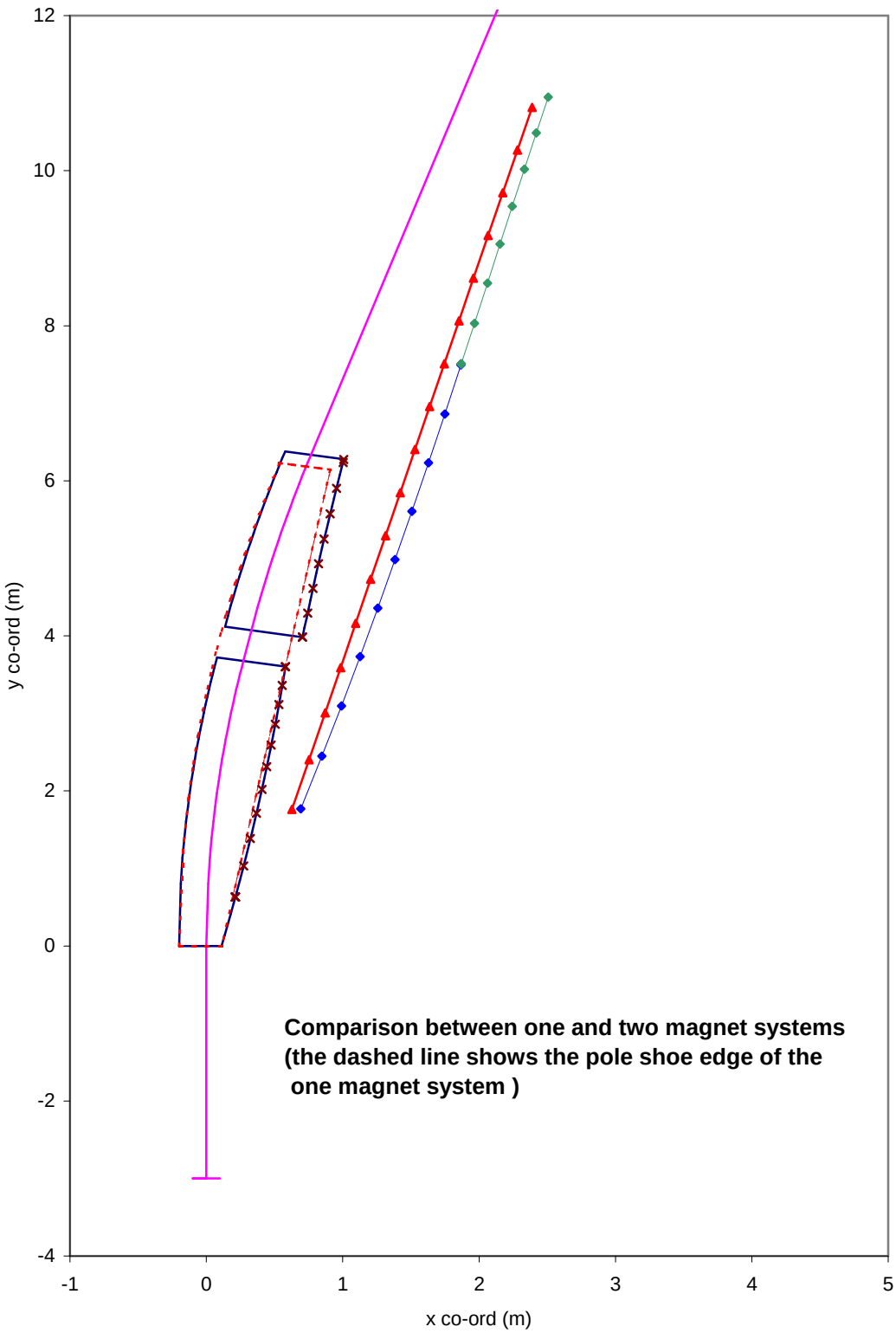
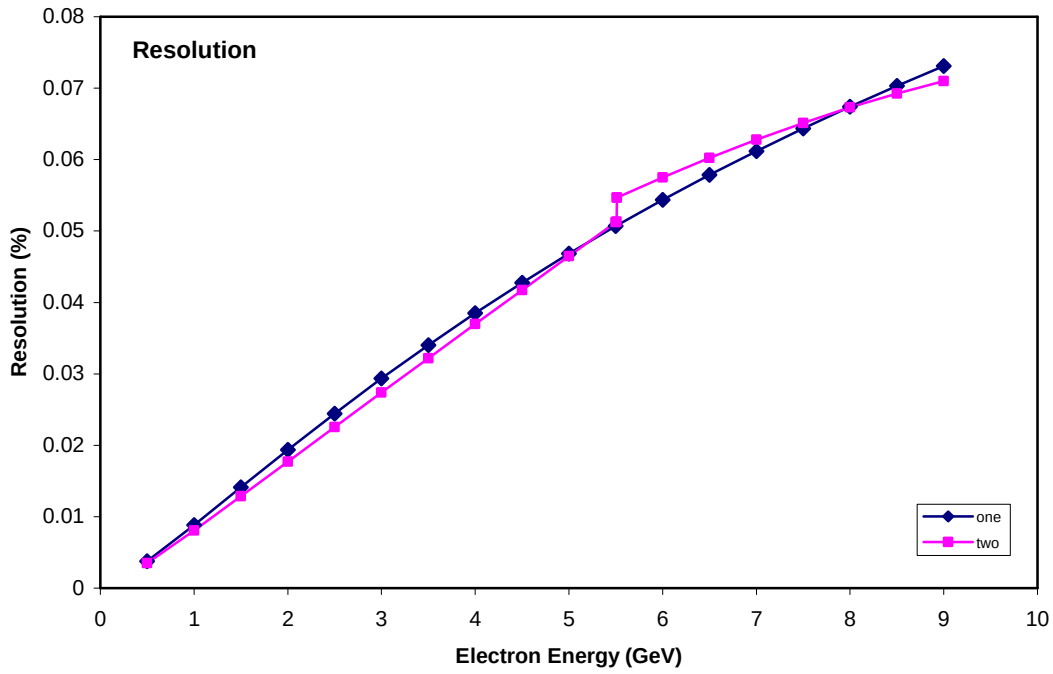
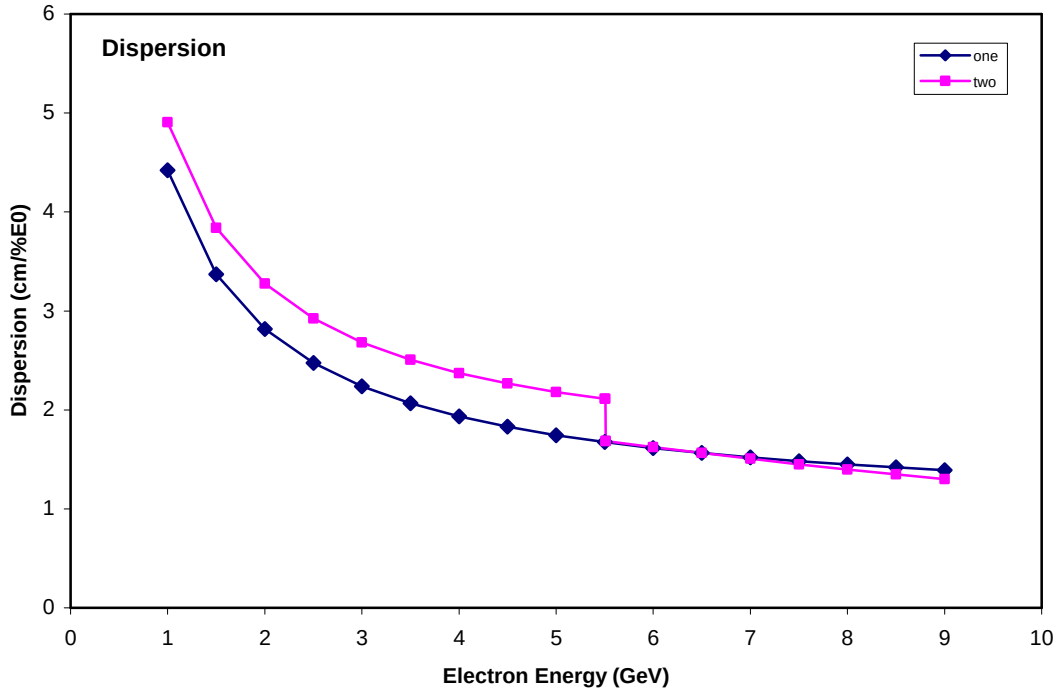
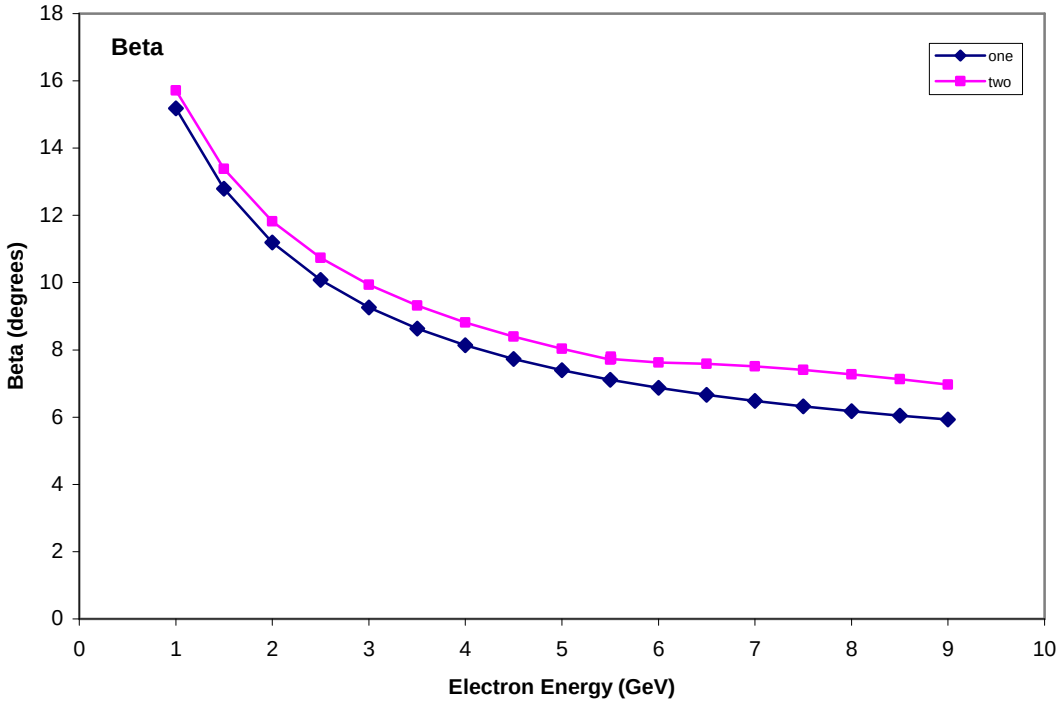

12
10
8
6
4
2
0
-2
-4
-1
0
1
2
3
4
5
Y co-ord(m)
X-co-ord (m)
Field=1.5 T
Beam Energy =12 GeV
Beam Bend= 13.4 degrees
Tilt angle 84.degrees
straight Output Edge.
Length of Focal Plane
(electron energy from
1GeV to 9 GeV)
= 9.23 m
Object distance 3 m

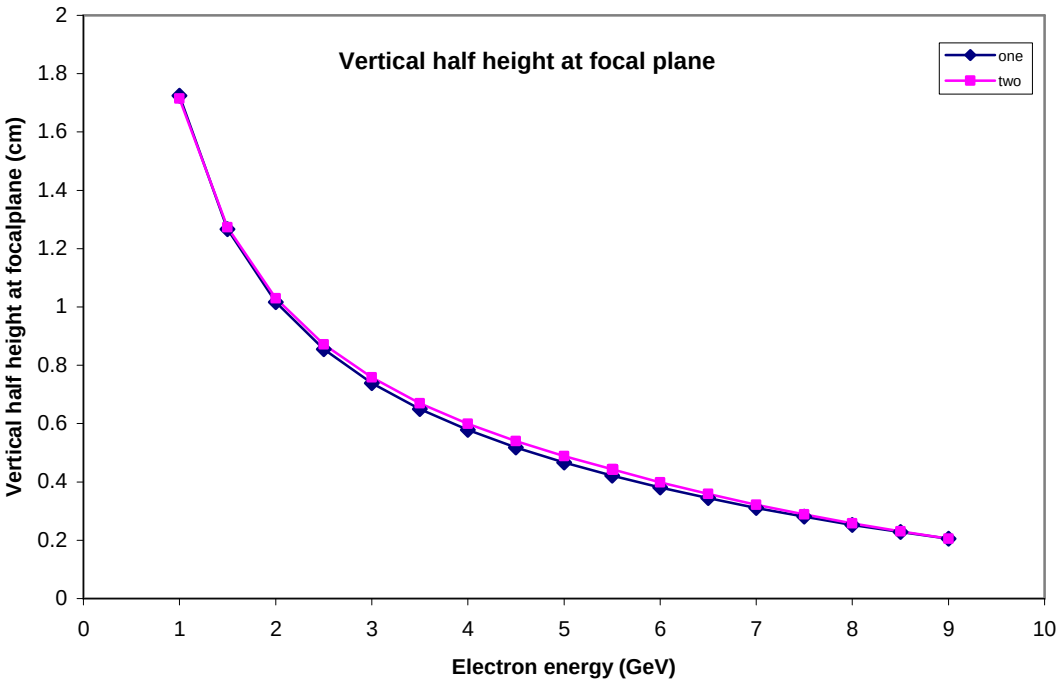

12
10
8
6
4
2
0
-2
-4
y co-ord (m)
-1
0
1
2
3
4
5
x co-ord (m)
Main beam energy 12 GeV
Bending angle 13.4 degrees
Object distance 3 m
Total focal plane :9.37 m
The lower part:
Field=1.6 T
output edge: convex
output edge radius : 49.6 m
Focal plane length 5.86 m,
(from 1GeV to 5.5 GeV )
The upper part:
Field=1.5 T
output edge: concave
output edge radius: 80 m
Focal plane length 3.51 m
(from 5.5-9 GeV)


12
10
8
6
4
2
0
-2
-4
y co-ord (m)
-1
0
1
2
3
4
5
x co-ord (m)
Comparison between one and two magnet systems
(the dashed line shows the pole shoe edge of the
one magnet system )


Resolution
Resolution (%)
Electron Energy (GeV)
one
two
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
1
2
3
4
5
6
7
8
9
10


Dispersion
Dispersion (cm/%E0)
Electron Energy (GeV)
one
two
6
5
4
3
2
1
0
0
1
2
3
4
5
6
7
8
9
10


Beta
one
two
Beta (degrees)
Electron Energy (GeV)
0
2
4
6
8
10
12
14
16
18
0
1
2
3
4
5
6
7
8
9
10


Vertical half height at focal plane
one
two
Vertical half height at focalplane (cm)
Electron energy (GeV)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
0
1
2
3
4
5
6
7
8
9
10