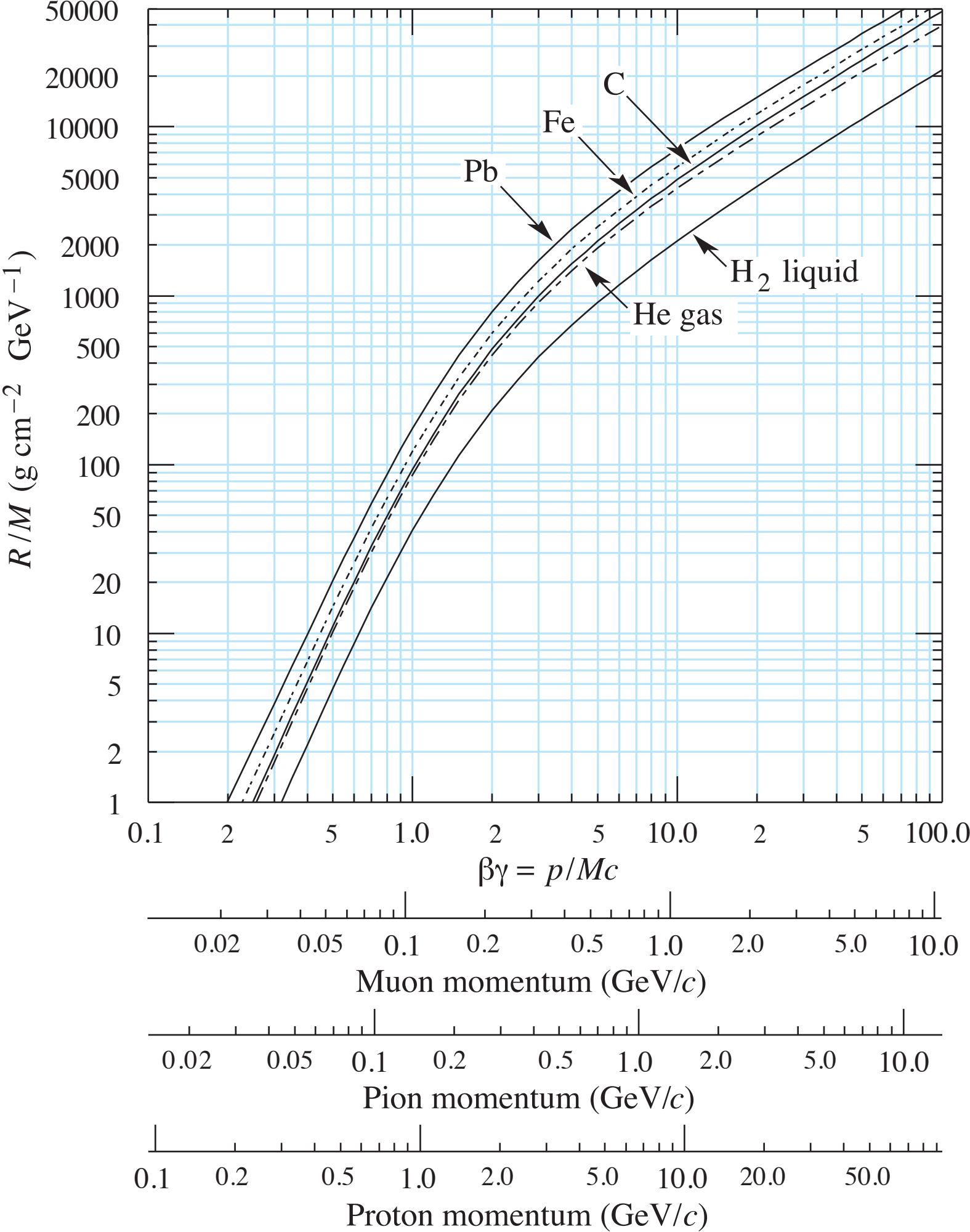
50000
20000
10000
5000
2000
1000
500
200
100
50
20
10
5
2
1
R/M (g cm−2 GeV−1)
C
Fe
Pb
H2 liquid
He gas
0.1
2
5
1.0
2
5
10.0
2
5
100.0
βγ = p/Mc
0.02
0.05
0.1
0.2
0.5
1.0
2.0
5.0
10.0
Muon momentum (GeV/c)
0.02
0.05
0.1
0.2
0.5
1.0
2.0
5.0
10.0
Pion momentum (GeV/c)
0.1
0.2
0.5
1.0
2.0
5.0
10.0
20.0
50.0
Proton momentum (GeV/c)