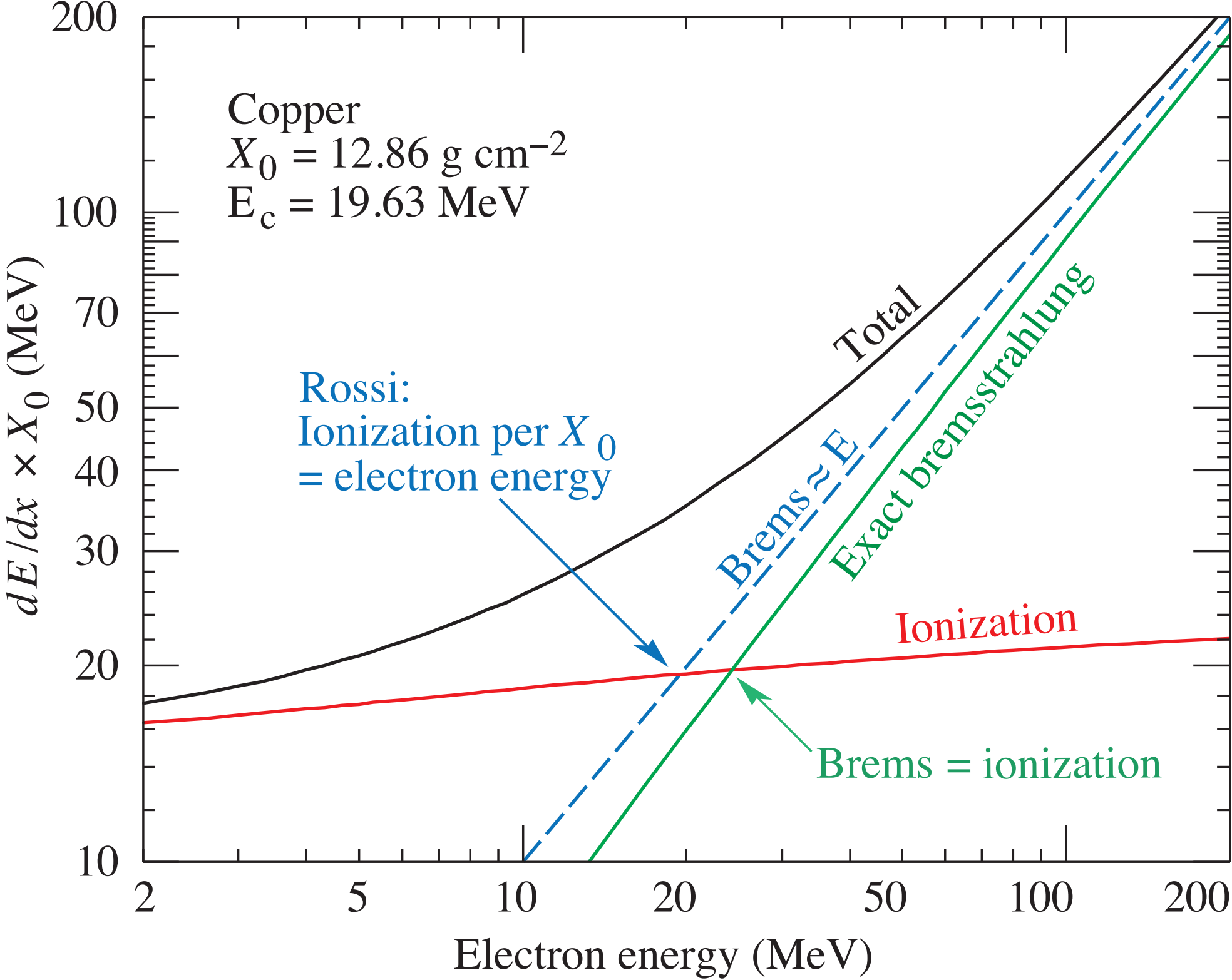
Copper
X_0 = 12.86 g cm^{-2}
E_c = 19.63 MeV
Total
Rossi:
Ionization per X_0
= electron energy
Brems ≈ E
Exact bremsstrahlung
Ionization
Brems = ionization
$dE/dx \times X_0$ (MeV)
Electron energy (MeV)
200
100
70
50
40
30
20
10
2
5
10
20
50
100
200