

p + Air (N+ O + Ar)

dN/dx (1/(g/cm²)/event

1.0e-02

proton incident: first interaction dpeth
cos= 0.9

IntModel

XsecModel

KE=1.1TeV

sibyll

dpmjet3

sibyll

dpmjet3

1.0e-03

1.0e-04

$1/b \cdot \exp(-x/b)$
 $b = 79.4$
 $mfp = 88.2 \text{ g/cm}^2$

1.0e-05

1.0e-06

1.0e-07

vertical depth (g/cm²)

0.00

100.00

200.00

300.00

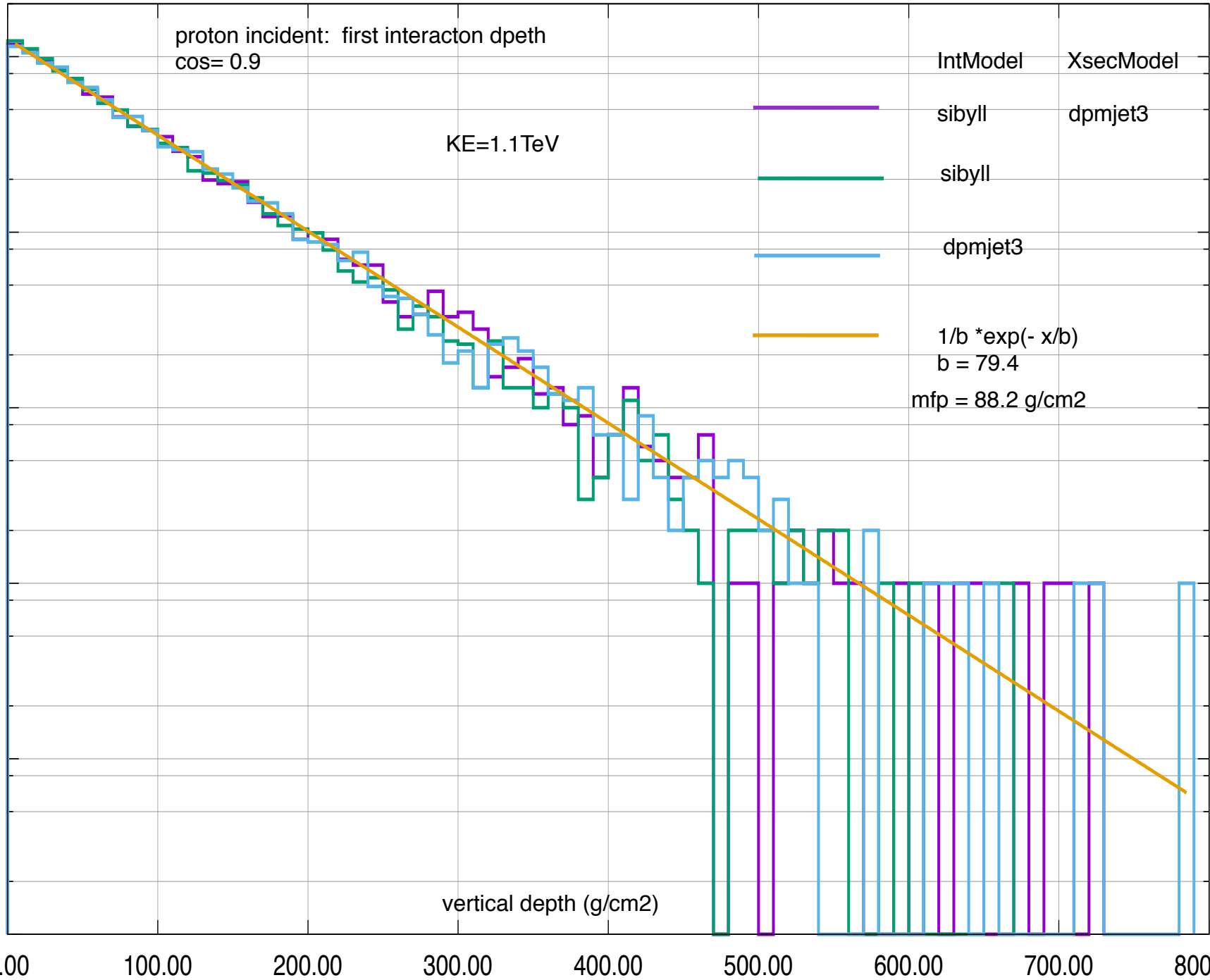
400.00

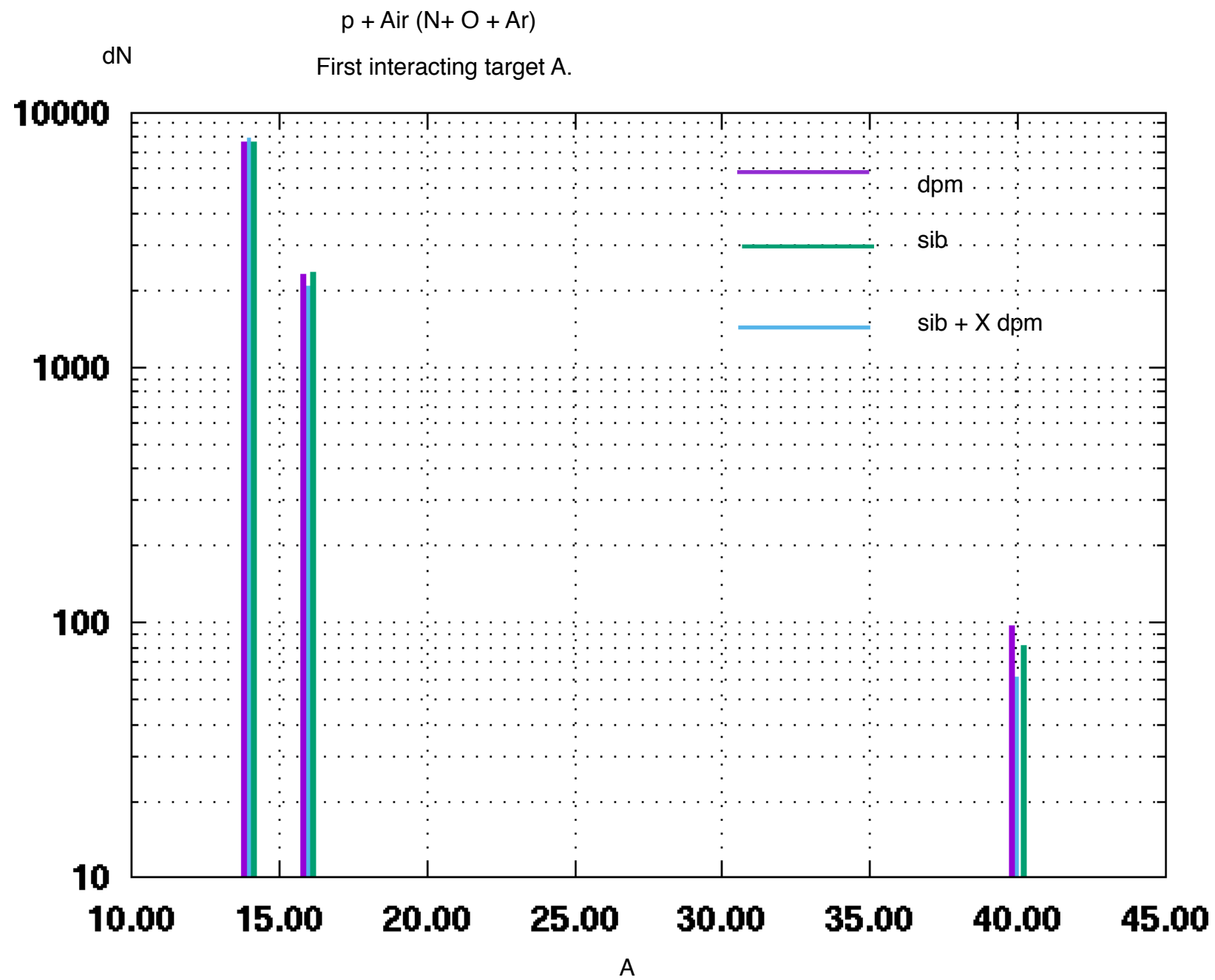
500.00

600.00

700.00

800.00

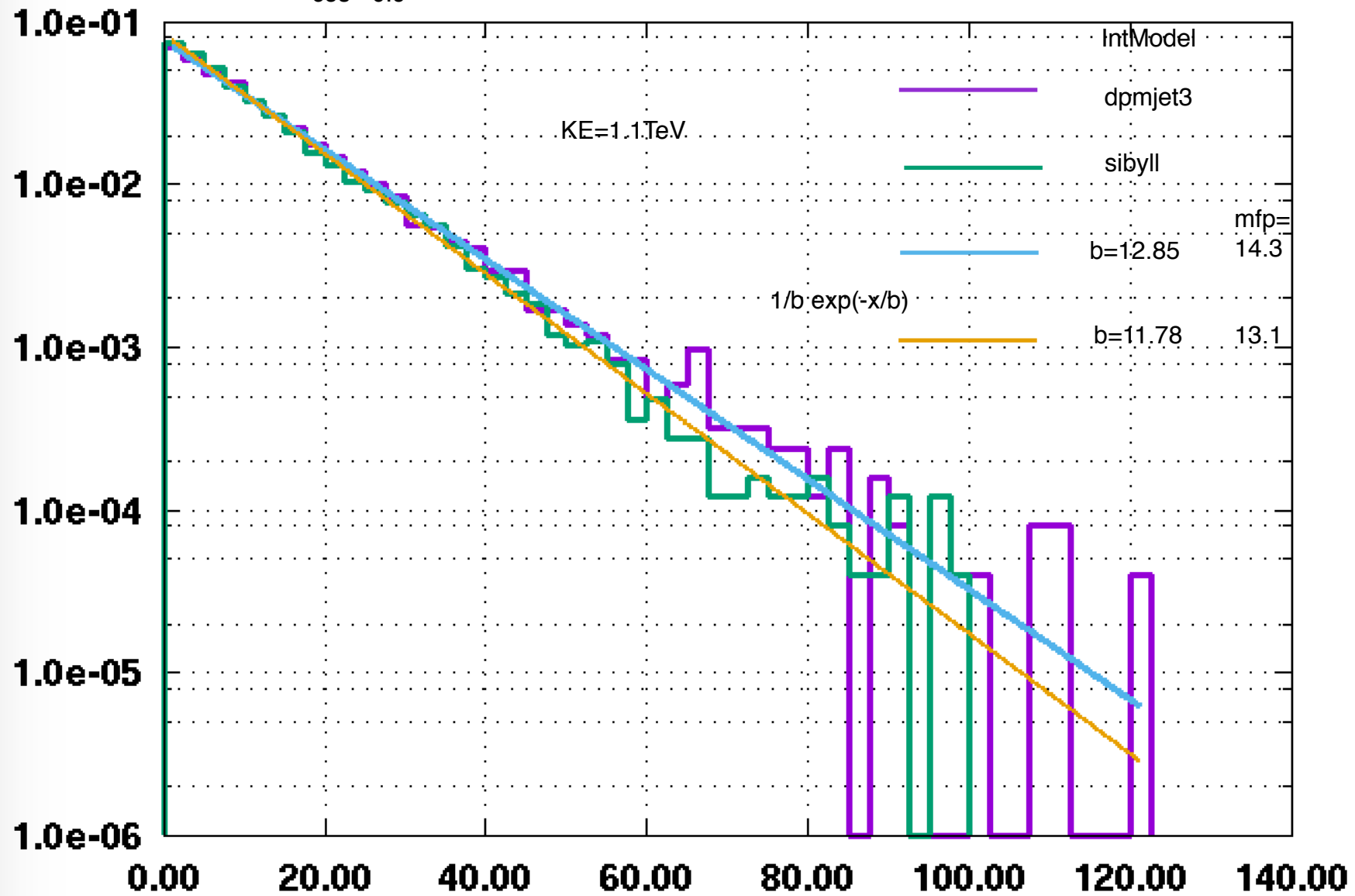




FE + Air (N+ O + Ar)

dN/dx (1/(g/cm²)/event

Fe incident: first interaction dpeth
cos= 0.9



First interacting target A.

FE + Air (N+ O + Ar)

dN

10000

1000

100

10

10.00

15.00

20.00

25.00

30.00

35.00

40.00

45.00

A

dpmjet3

sibyll

