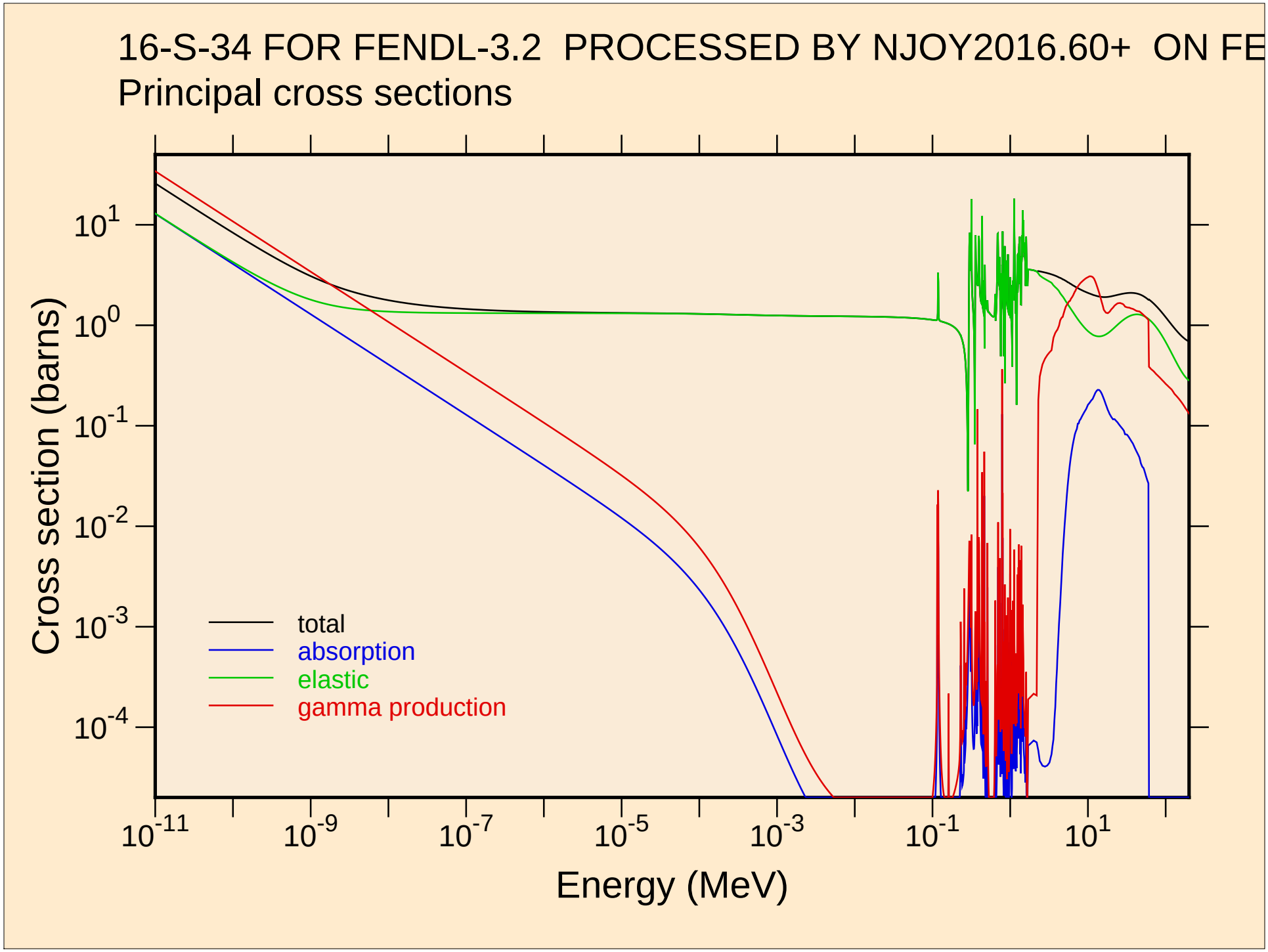
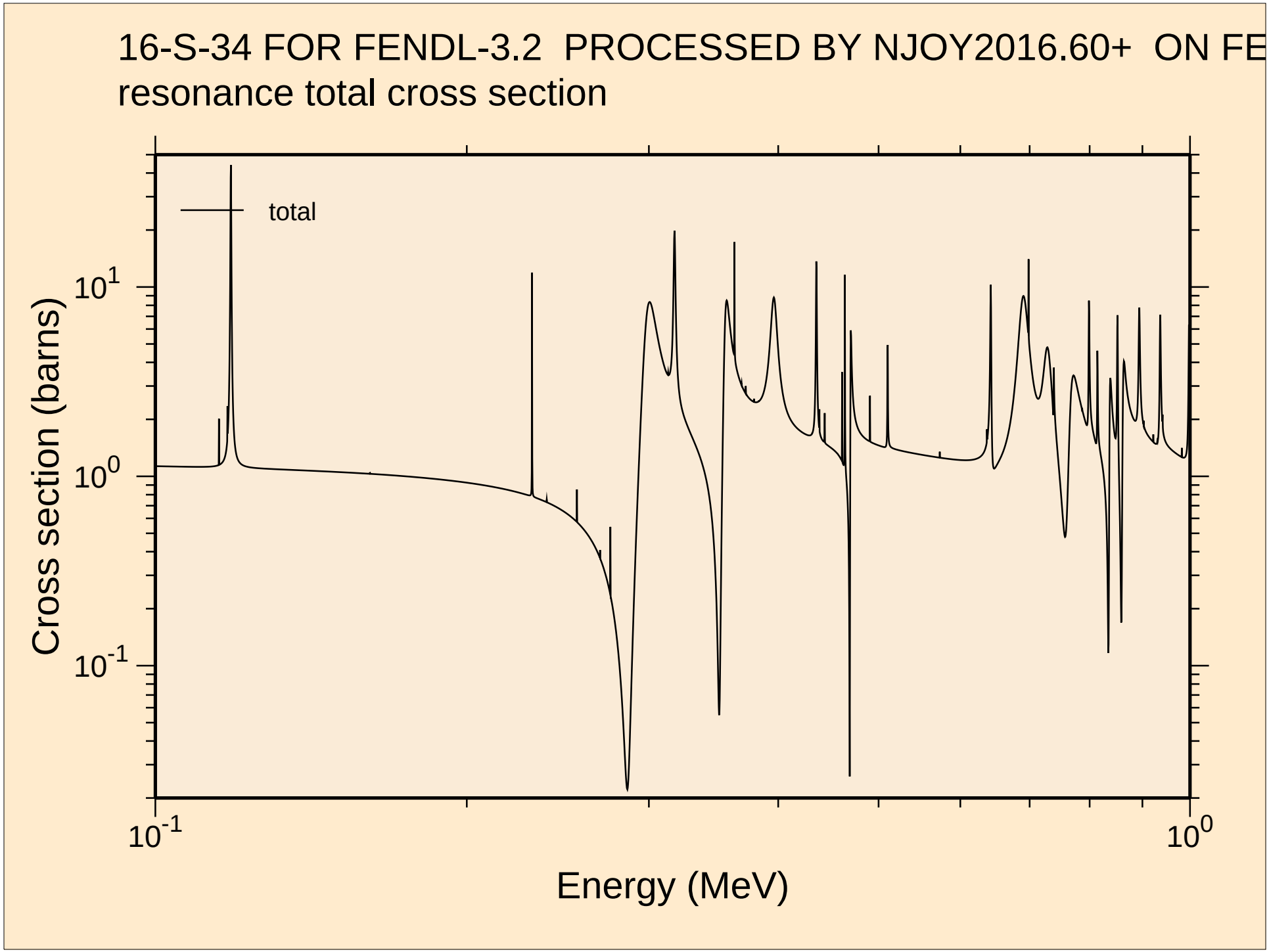
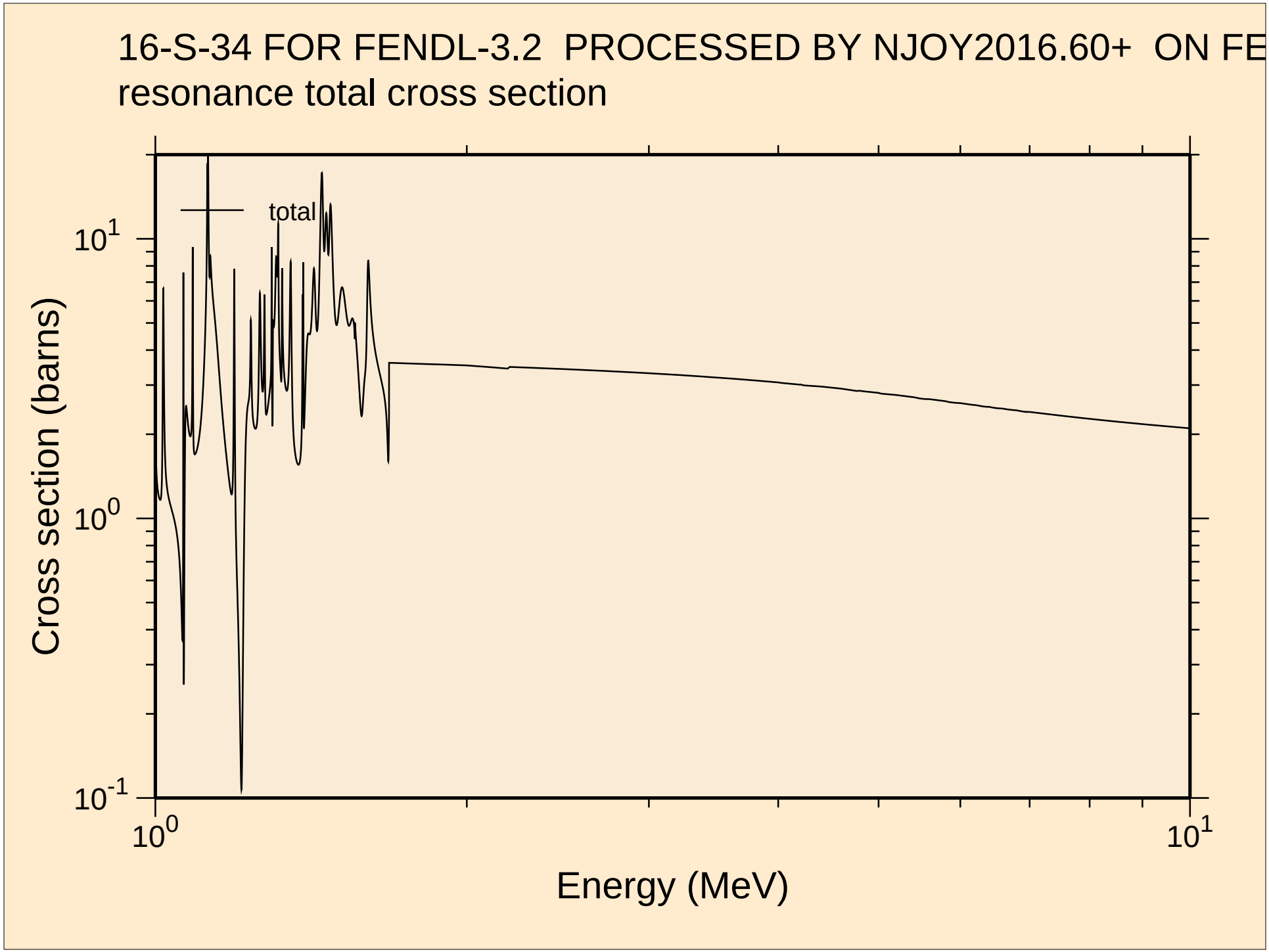
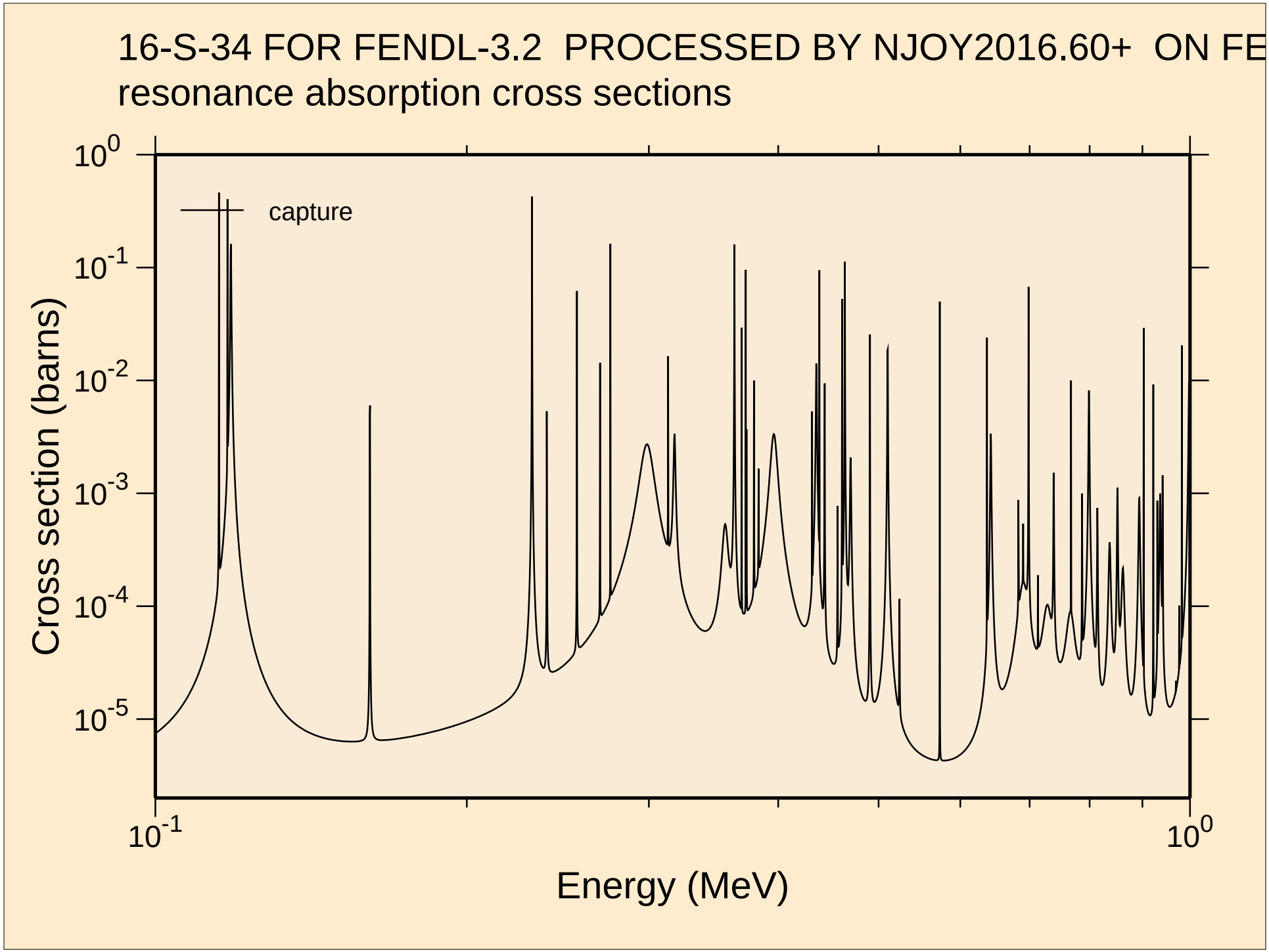
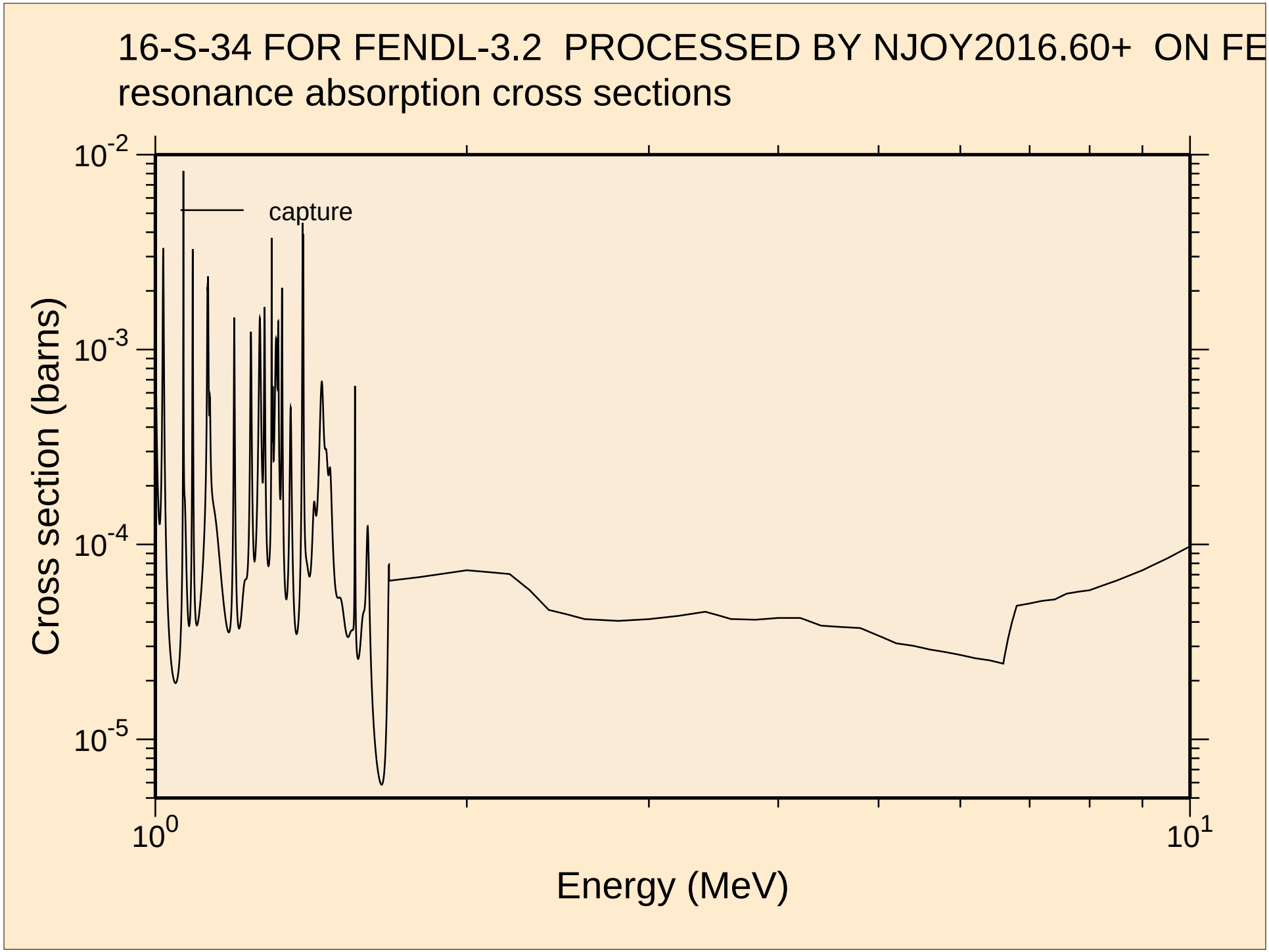
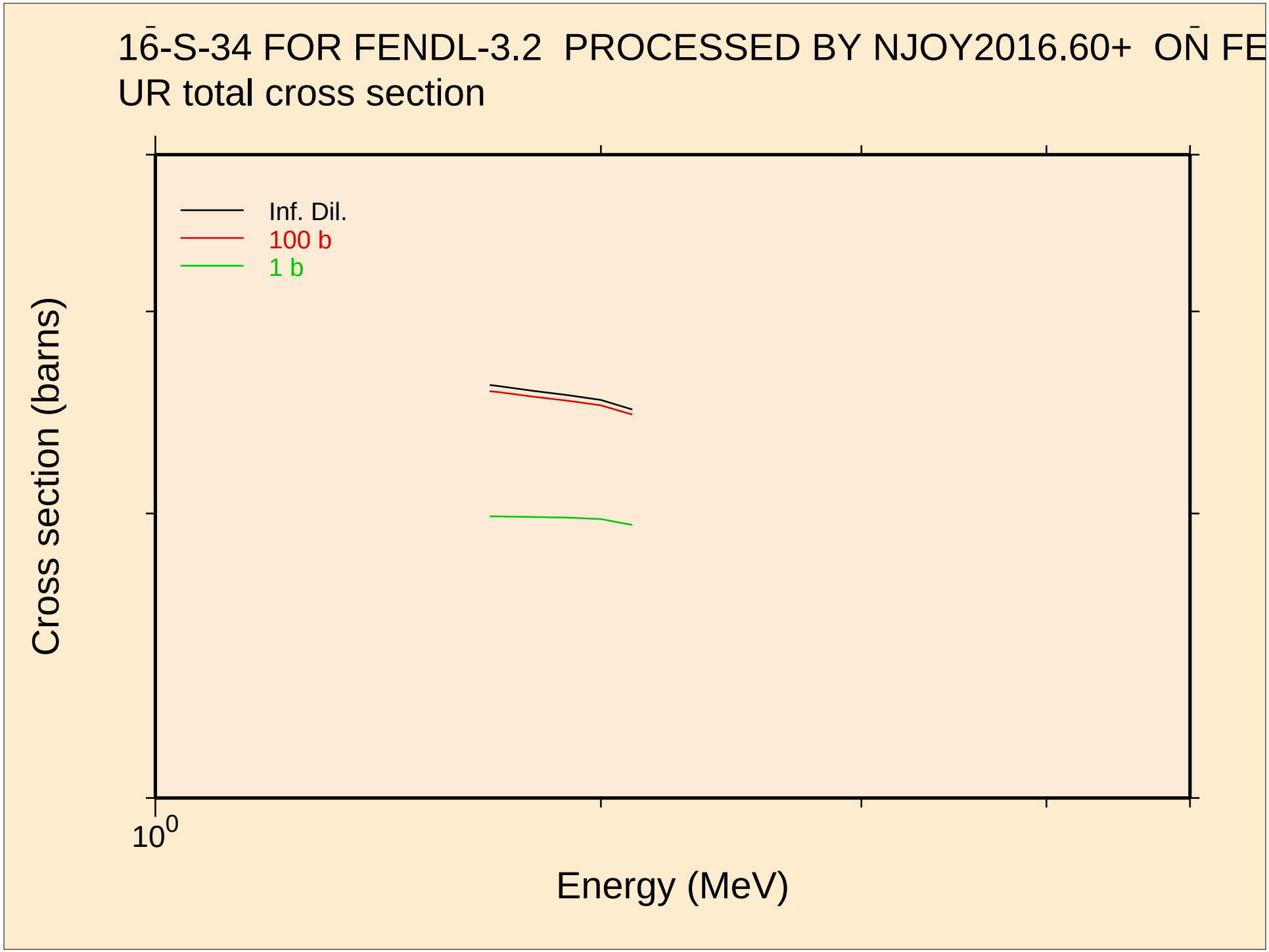

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Principal cross sections
Cross section (barns)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
total
absorption
elastic
gamma production
10^{-11}
10^{-9}
10^{-7}
10^{-5}
10^{-3}
10^{-1}
10^{1}
Energy (MeV)

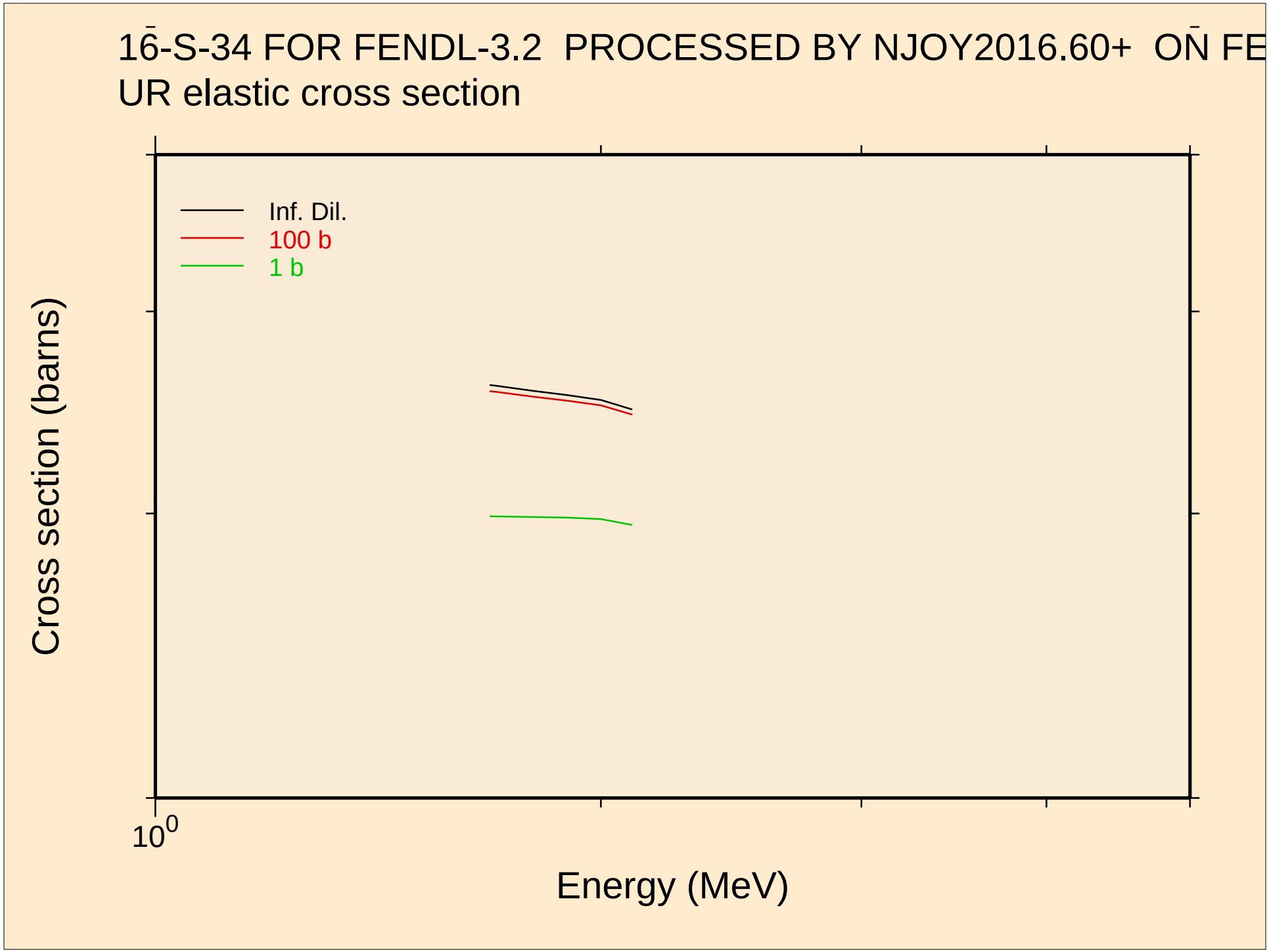

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
resonance total cross section
total
Cross section (barns)
10^{1}
10^{0}
10^{-1}
10^{-1}
10^{0}
Energy (MeV)

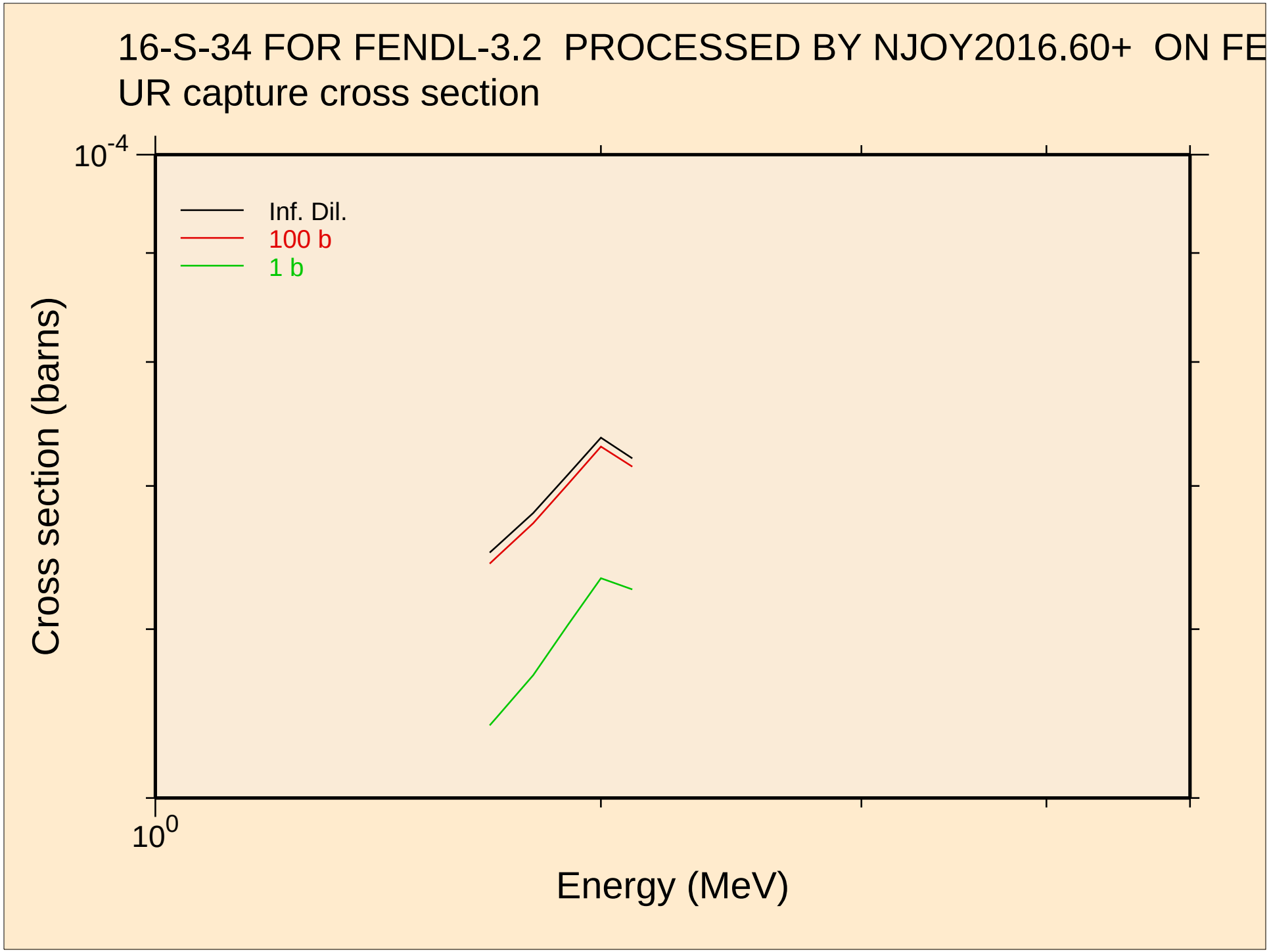

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
resonance total cross section
total
Cross section (barns)
10^{1}
10^{0}
10^{-1}
10^{0}
10^{1}
Energy (MeV)

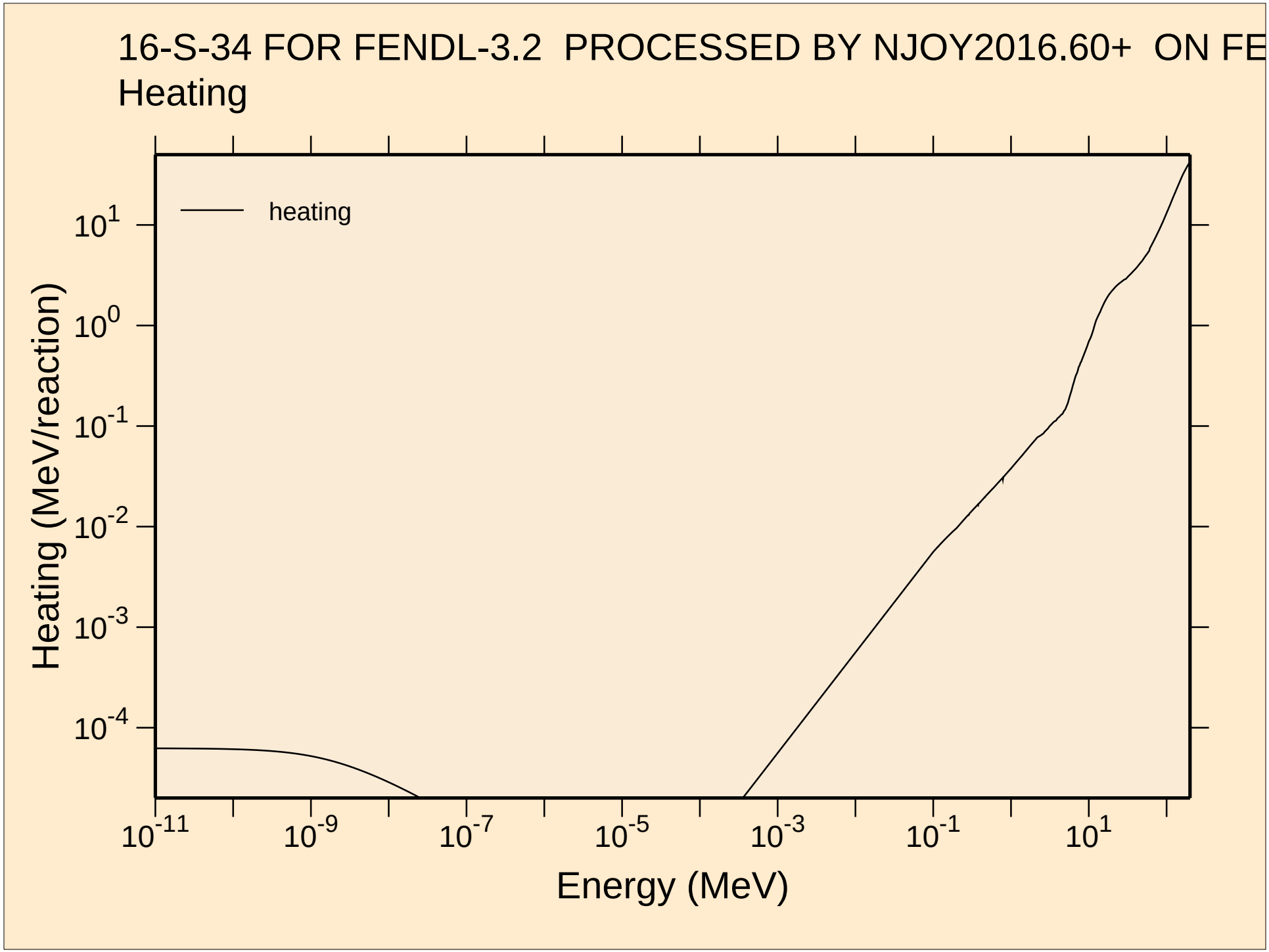

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
resonance absorption cross sections
capture
Cross section (barns)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-1}
10^{0}
Energy (MeV)

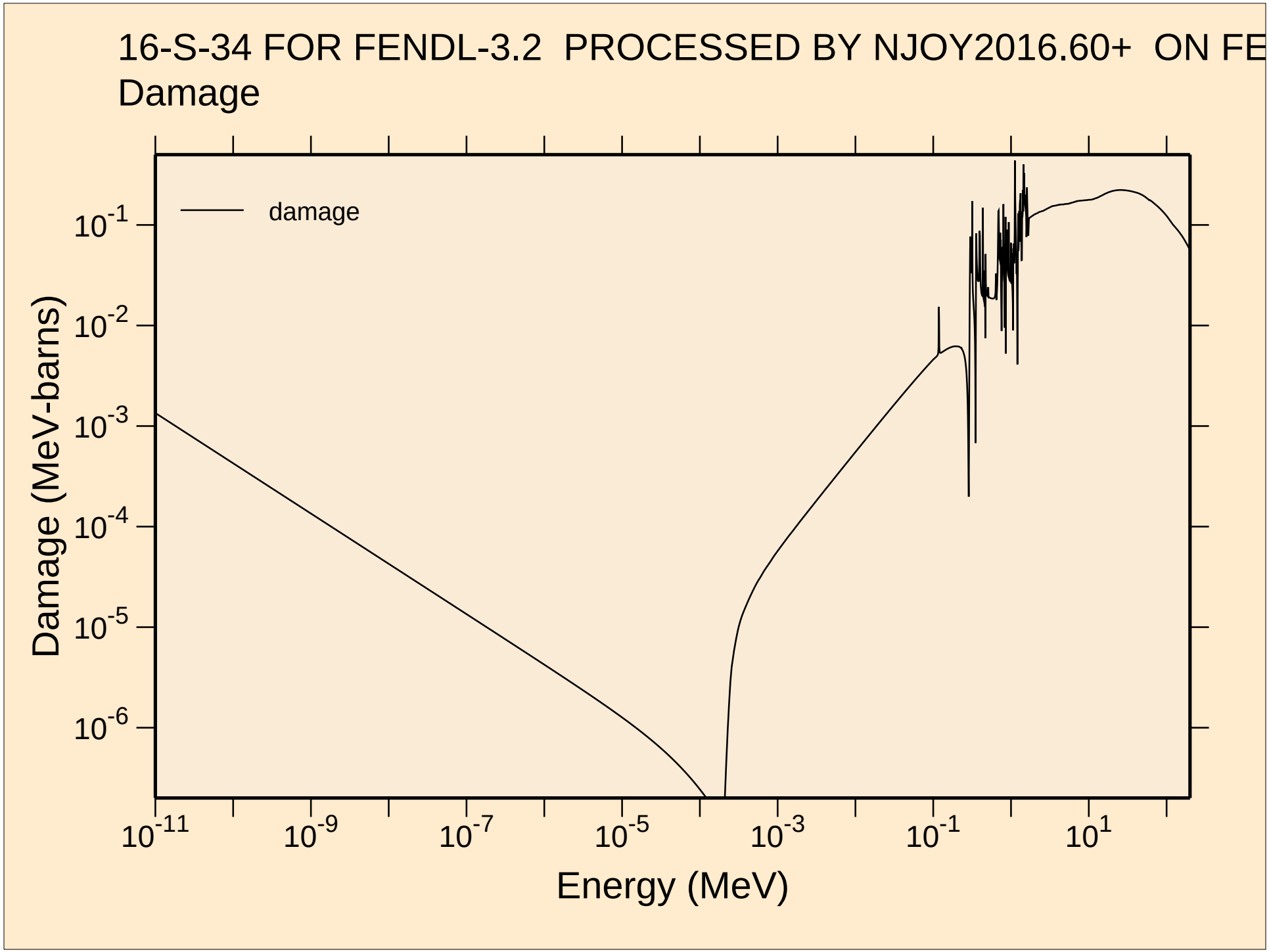

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
resonance absorption cross sections
capture
Cross section (barns)
10-2
10-3
10-4
10-5
100
101
Energy (MeV)

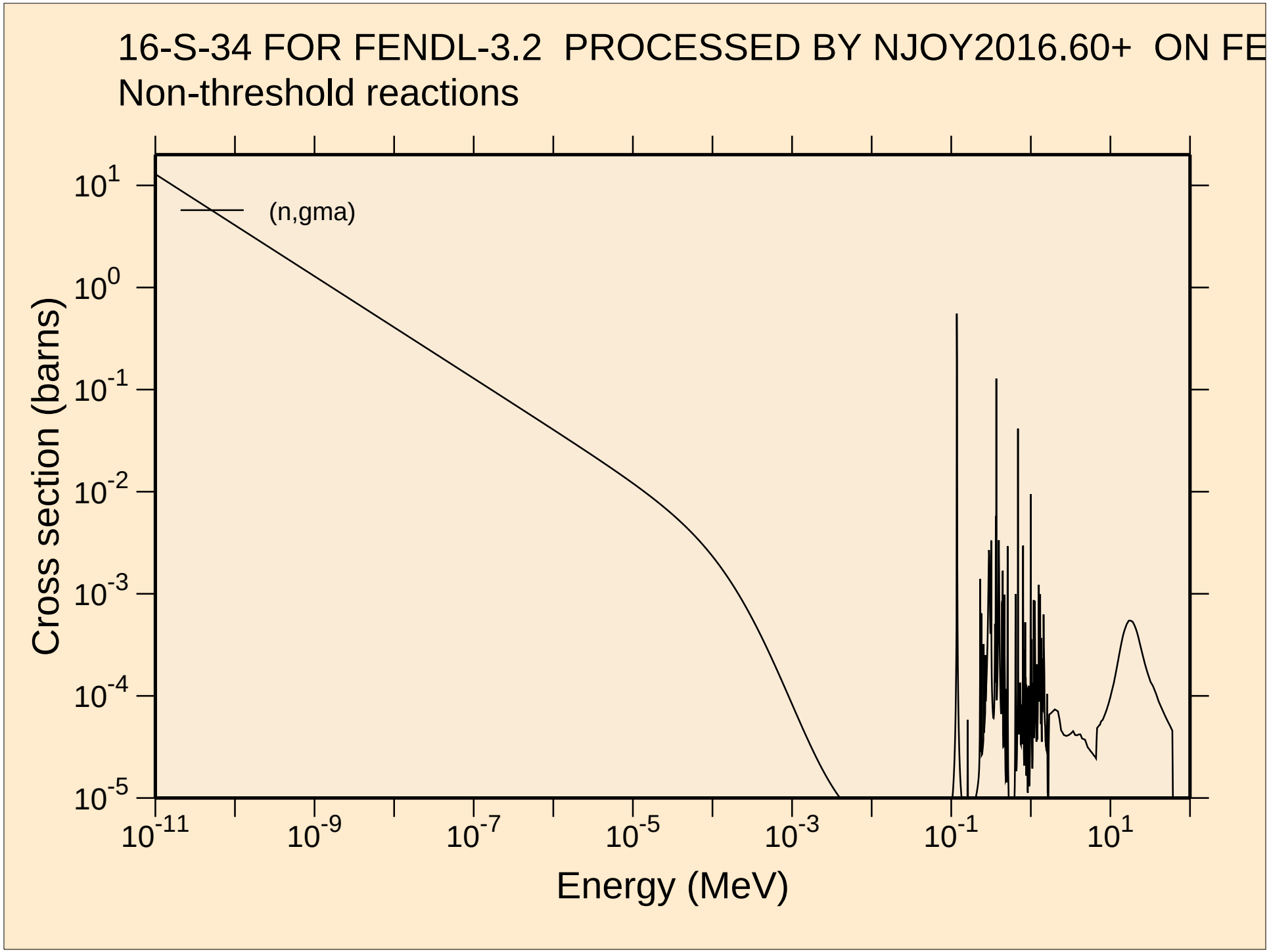

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
UR total cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^0
Energy (MeV)

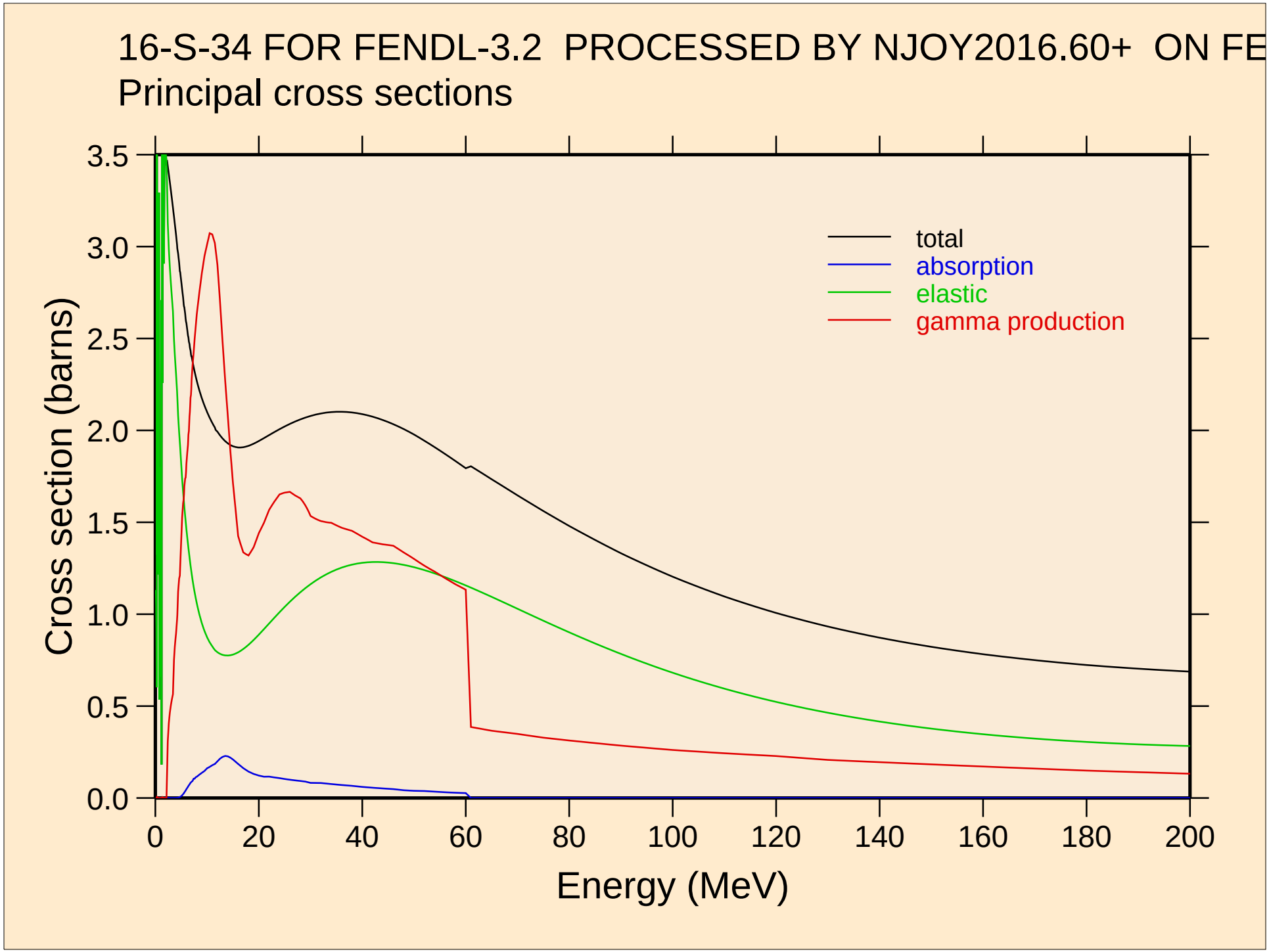

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
UR elastic cross section
Inf. Dil.
100 b
1 b
Cross section (barns)
10^0
Energy (MeV)

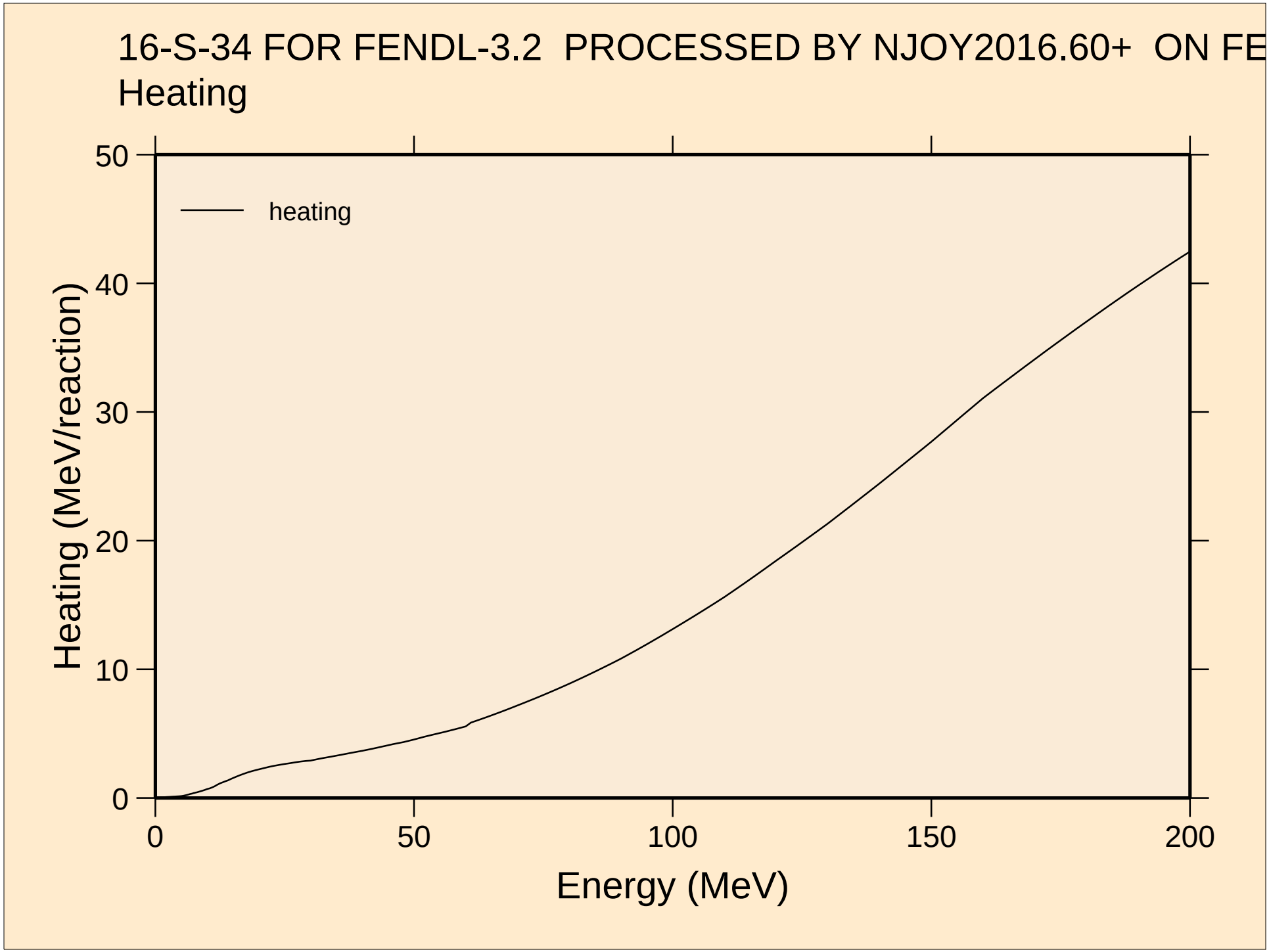

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
UR capture cross section
10-4
Inf. Dil.
100 b
1 b
Cross section (barns)
100
Energy (MeV)

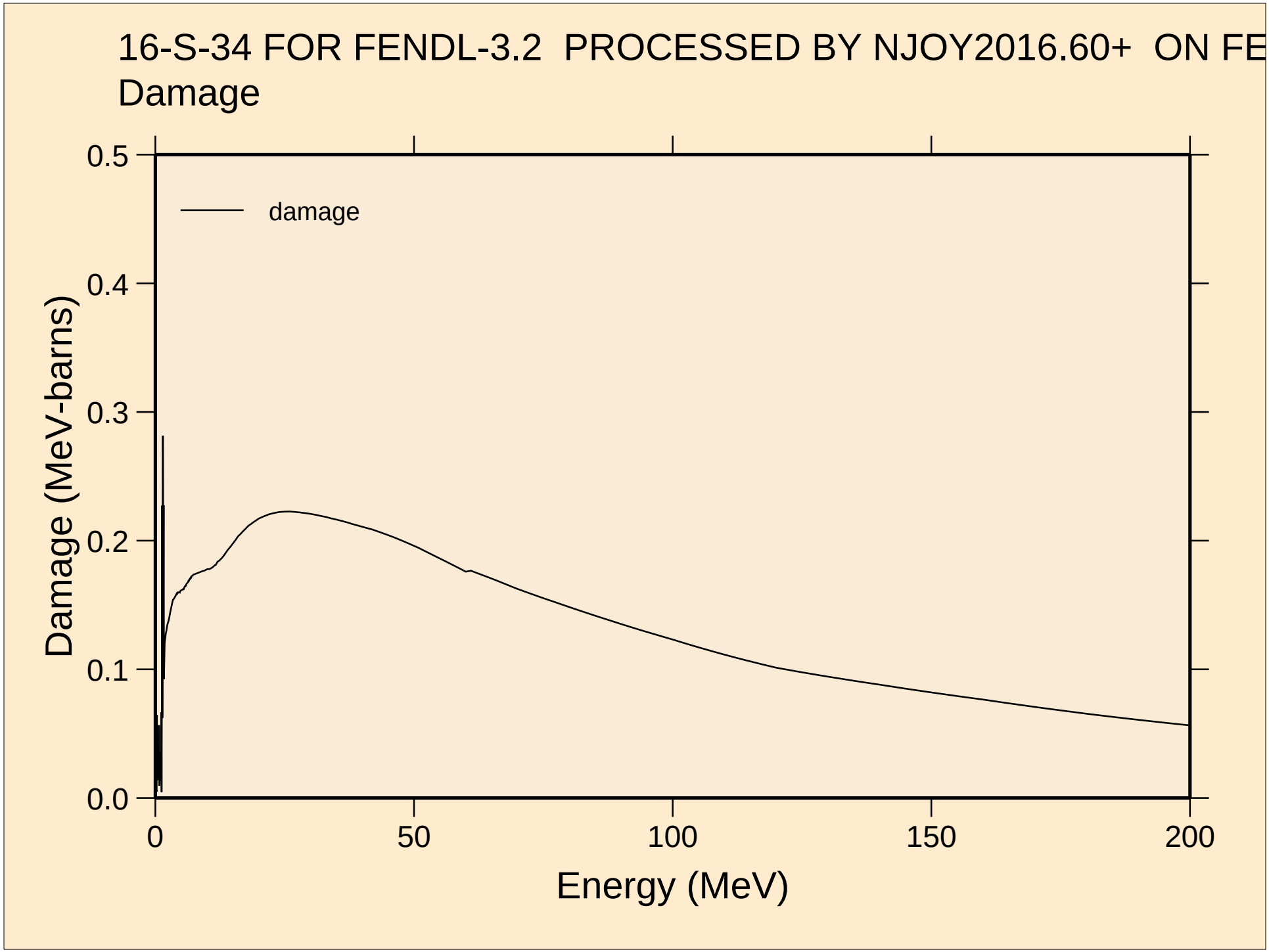

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Heating
heating
Heating (MeV/reaction)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1
Energy (MeV)

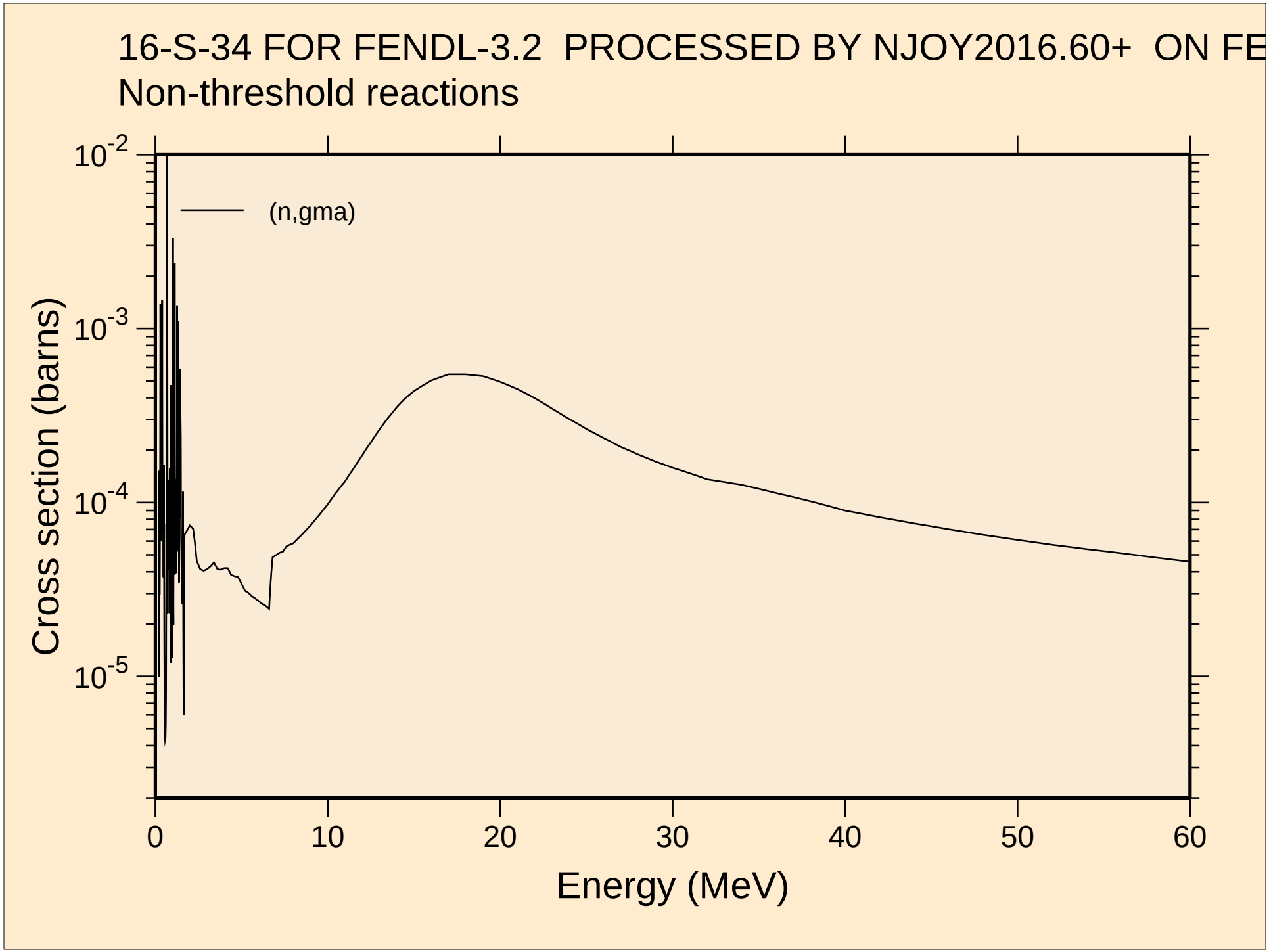

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Damage
damage
Damage (MeV-barns)
10-1
10-2
10-3
10-4
10-5
10-6
10-11
10-9
10-7
10-5
10-3
10-1
101
Energy (MeV)

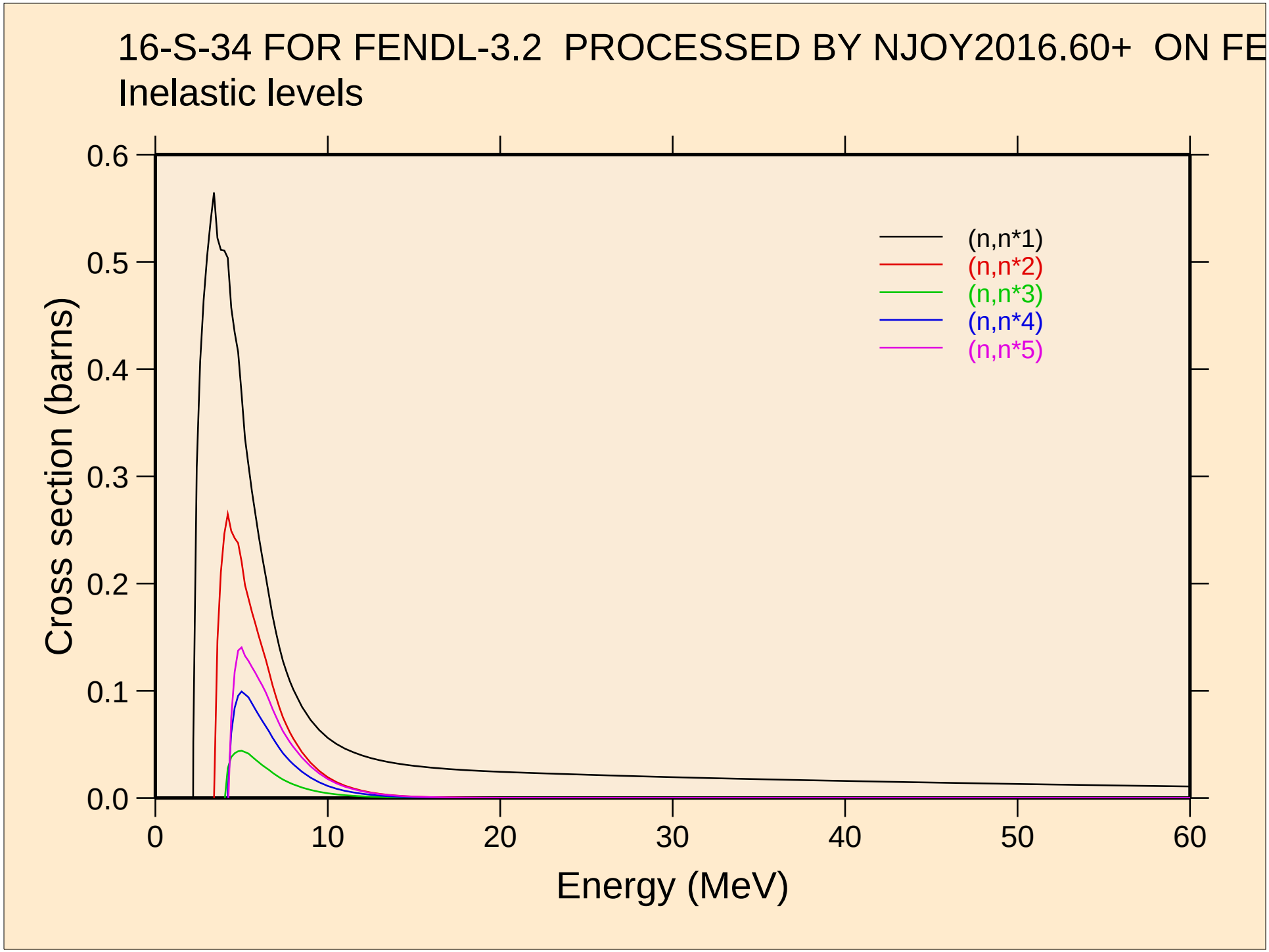

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Non-threshold reactions
(n,gma)
Cross section (barns)
Energy (MeV)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-5
10^-11
10^-9
10^-7
10^-5
10^-3
10^-1
10^1

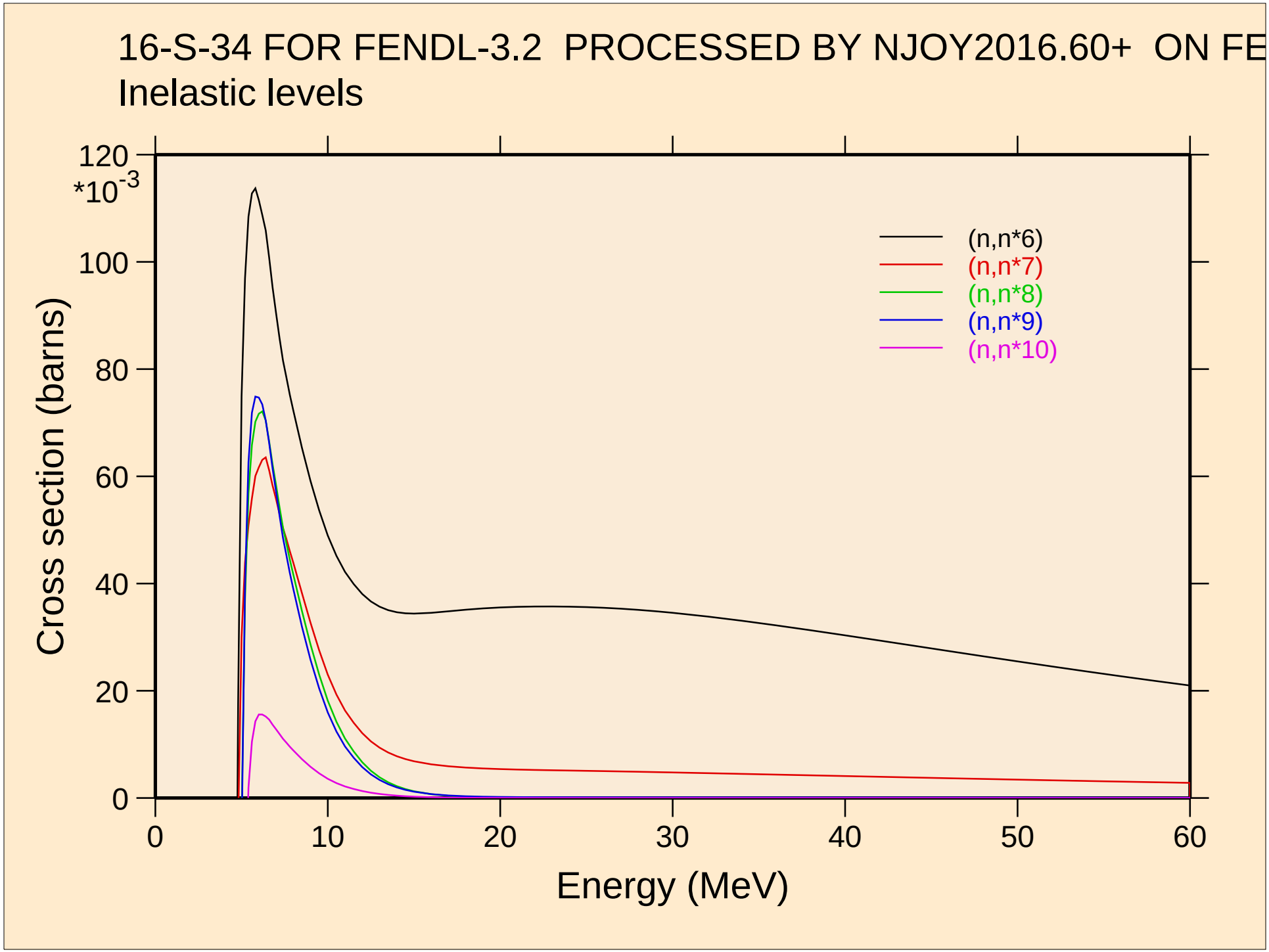

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Principal cross sections
Cross section (barns)
Energy (MeV)
total
absorption
elastic
gamma production
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
20
40
60
80
100
120
140
160
180
200

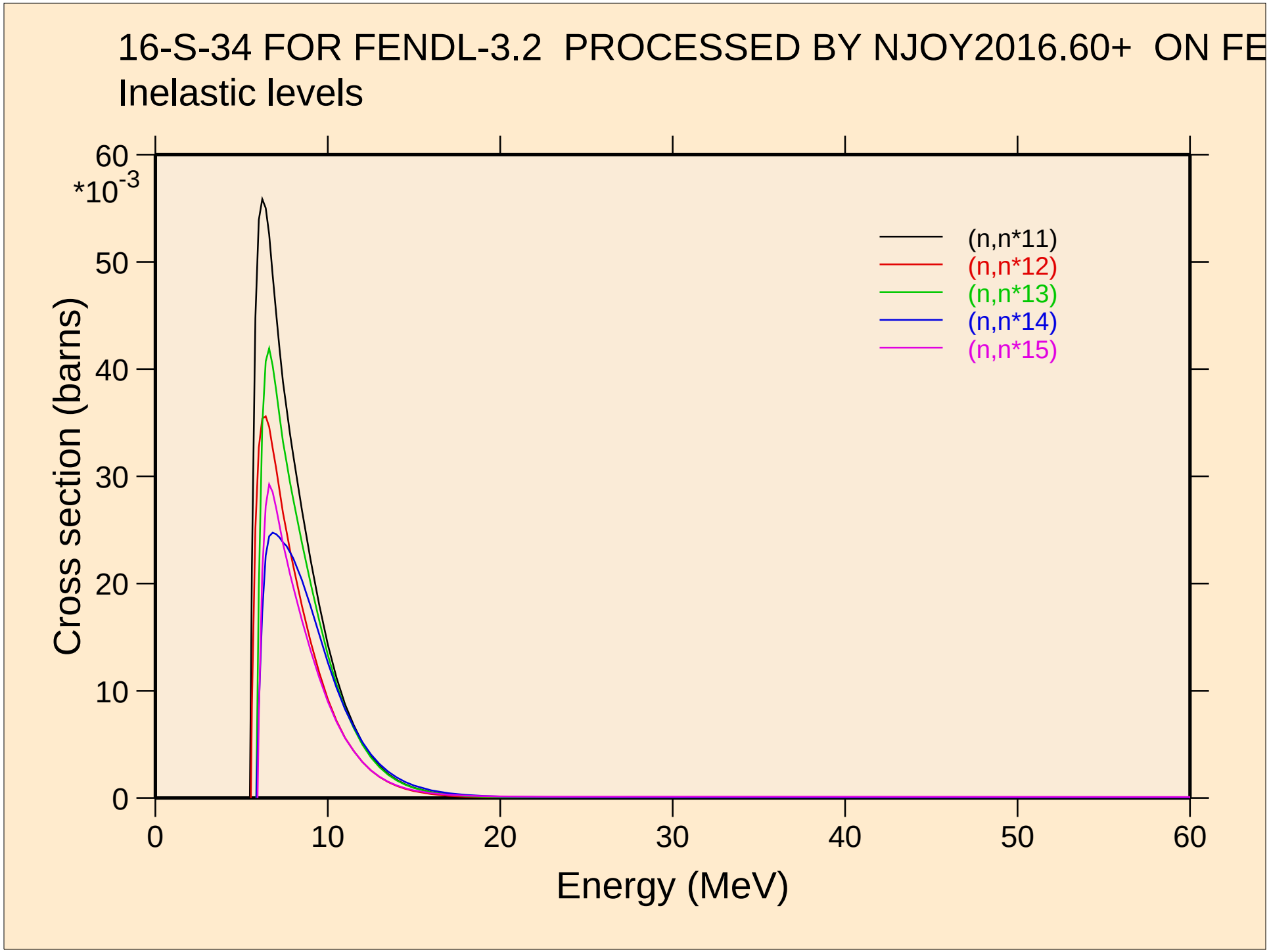

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
0
50
100
150
200

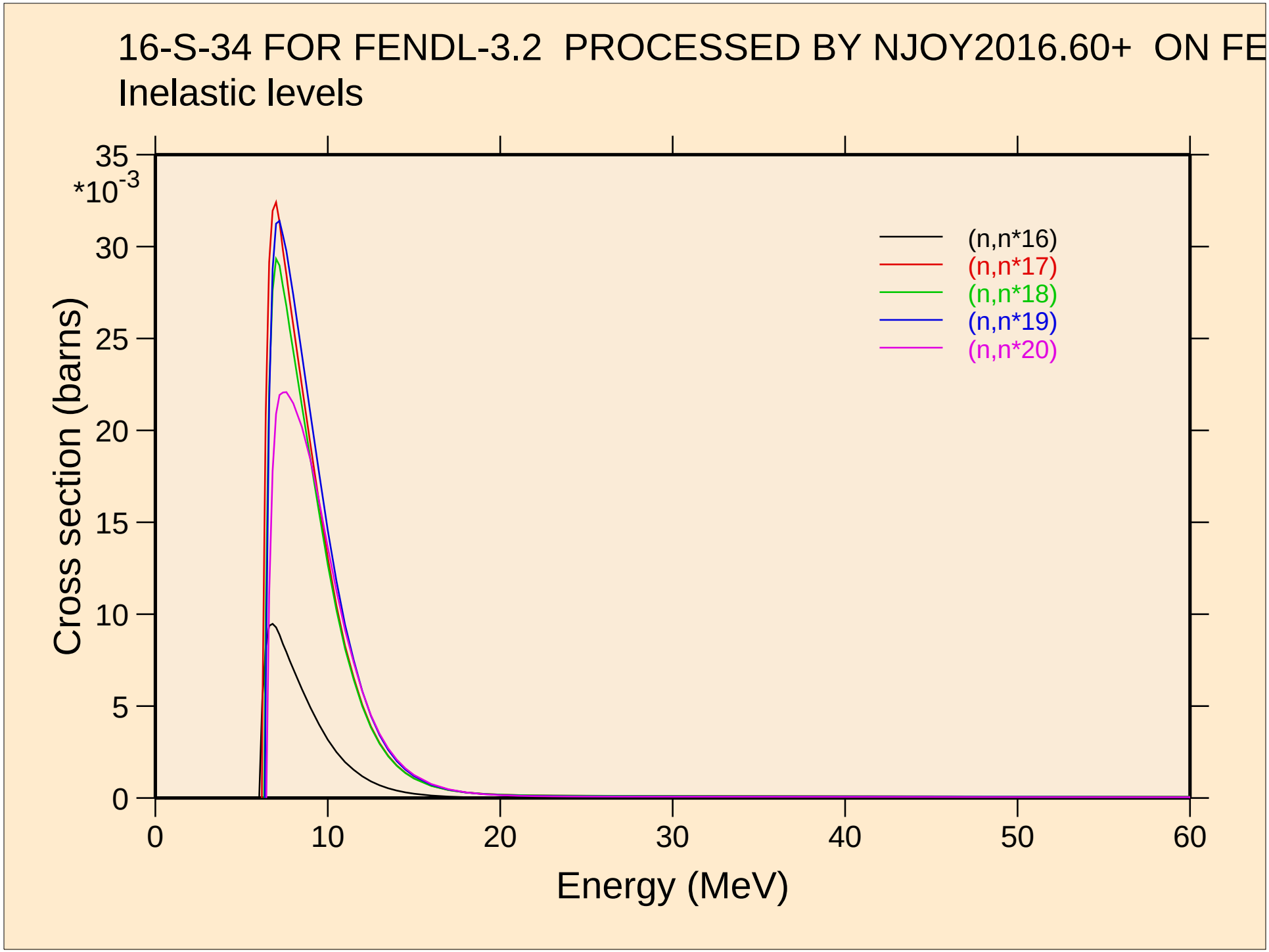

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Damage
damage
Damage (MeV-barns)
0.0
0.1
0.2
0.3
0.4
0.5
0
50
100
150
200
Energy (MeV)

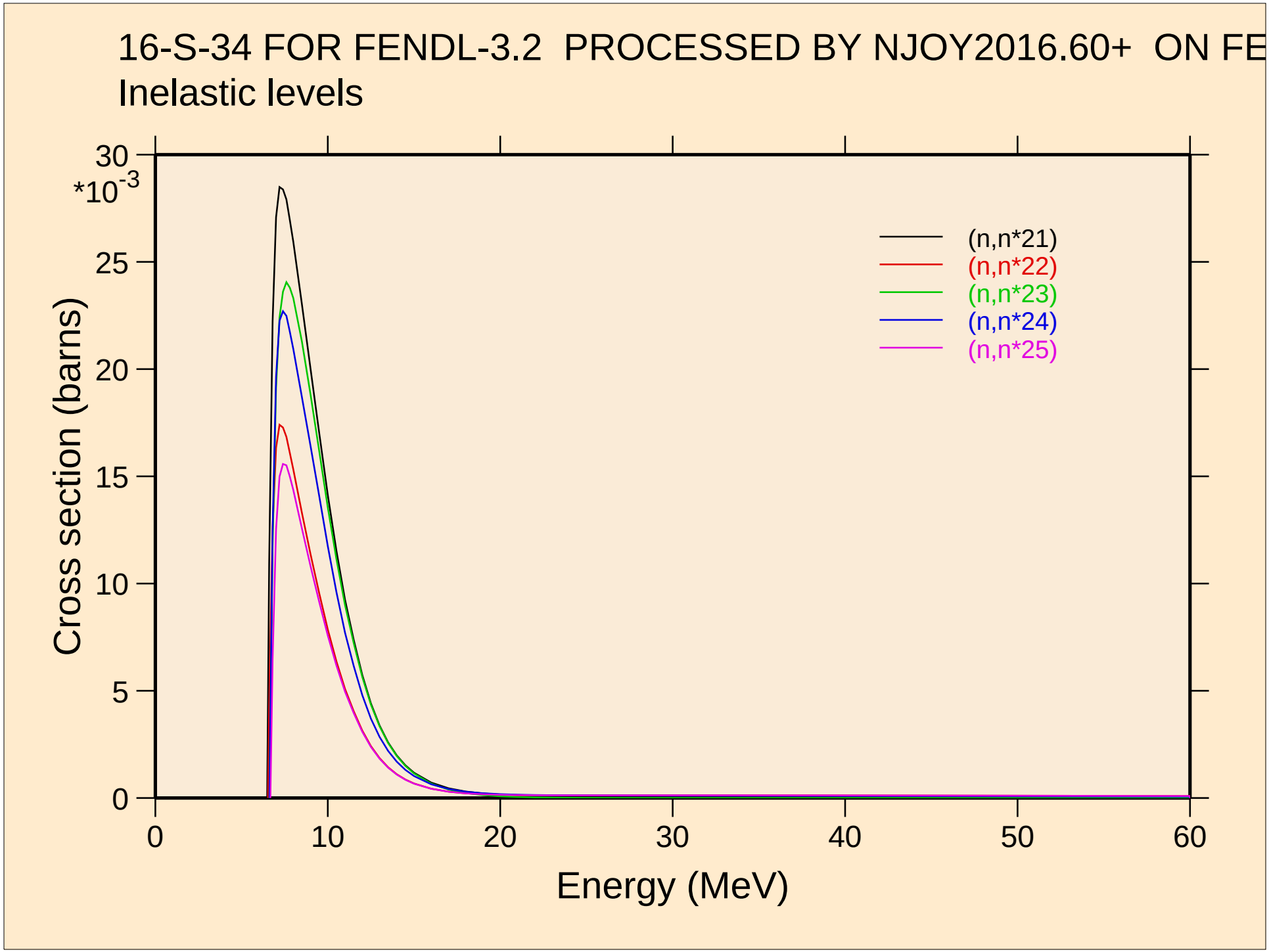

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Non-threshold reactions
(n,gma)
Cross section (barns)
10-2
10-3
10-4
10-5
0
10
20
30
40
50
60
Energy (MeV)

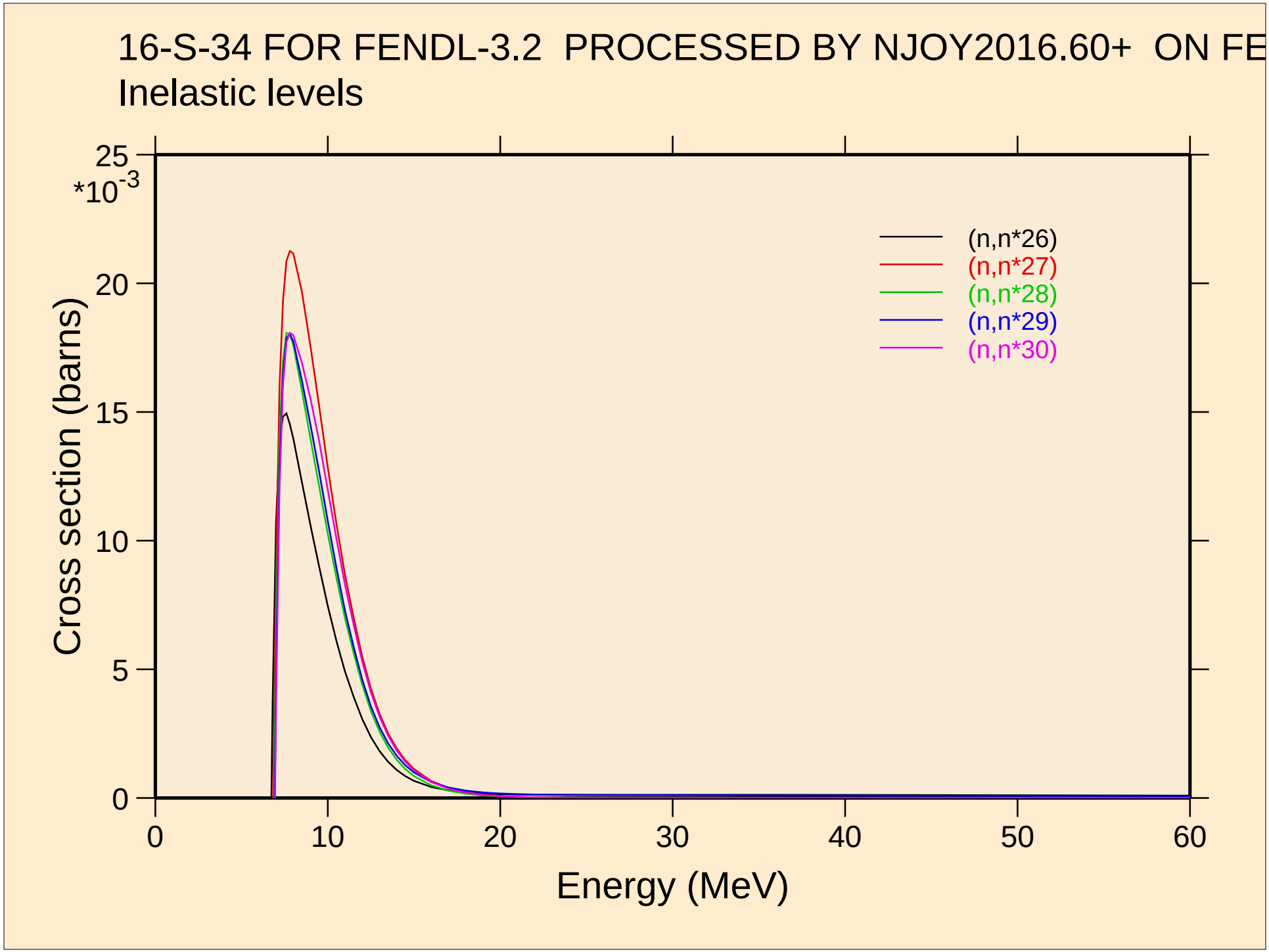

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Inelastic levels
Cross section (barns)
Energy (MeV)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0
10
20
30
40
50
60
(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)

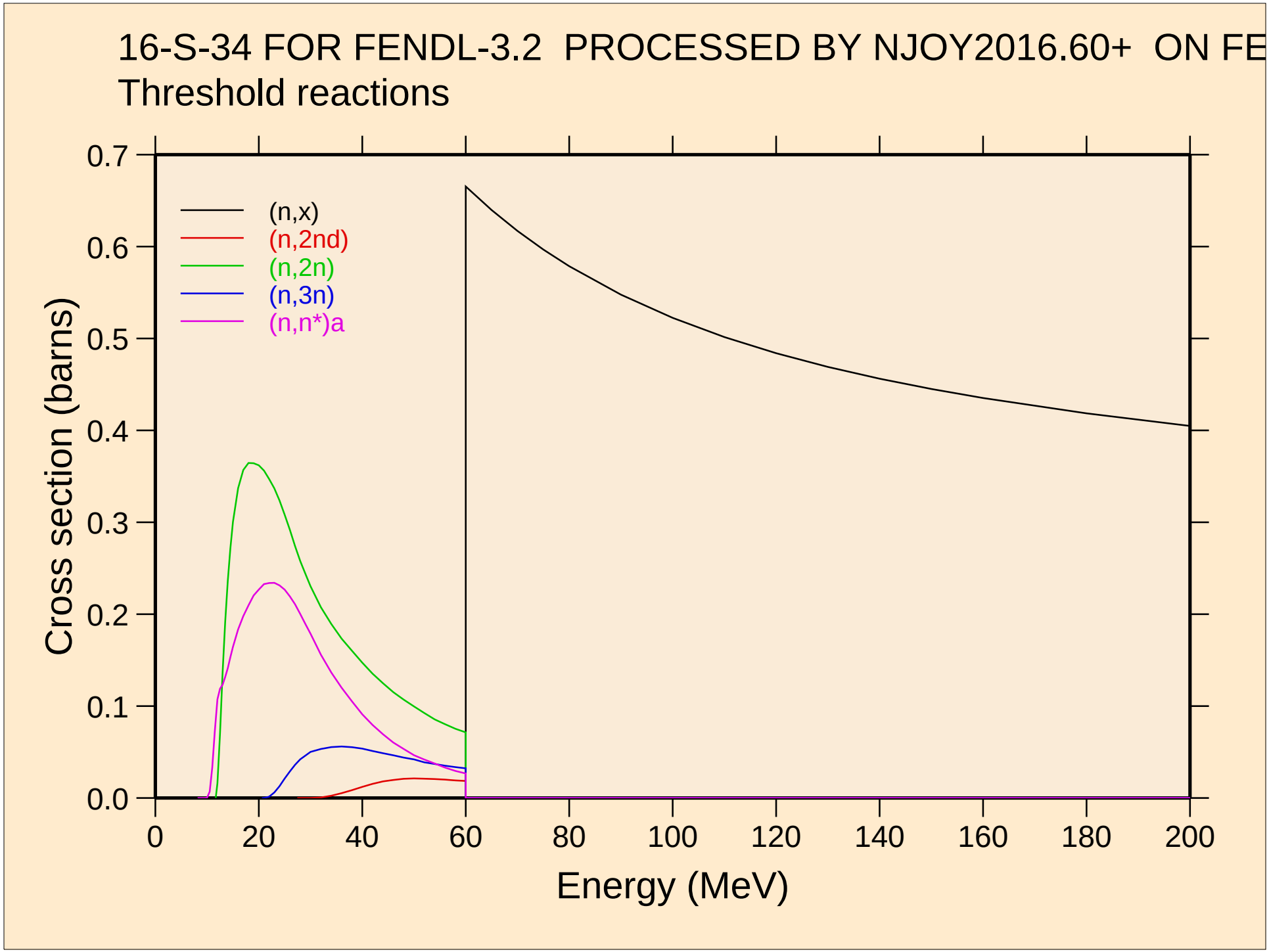

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Inelastic levels
120
*10-3
100
80
60
40
20
0
Cross section (barns)
0
10
20
30
40
50
60
Energy (MeV)
(n,n*6)
(n,n*7)
(n,n*8)
(n,n*9)
(n,n*10)

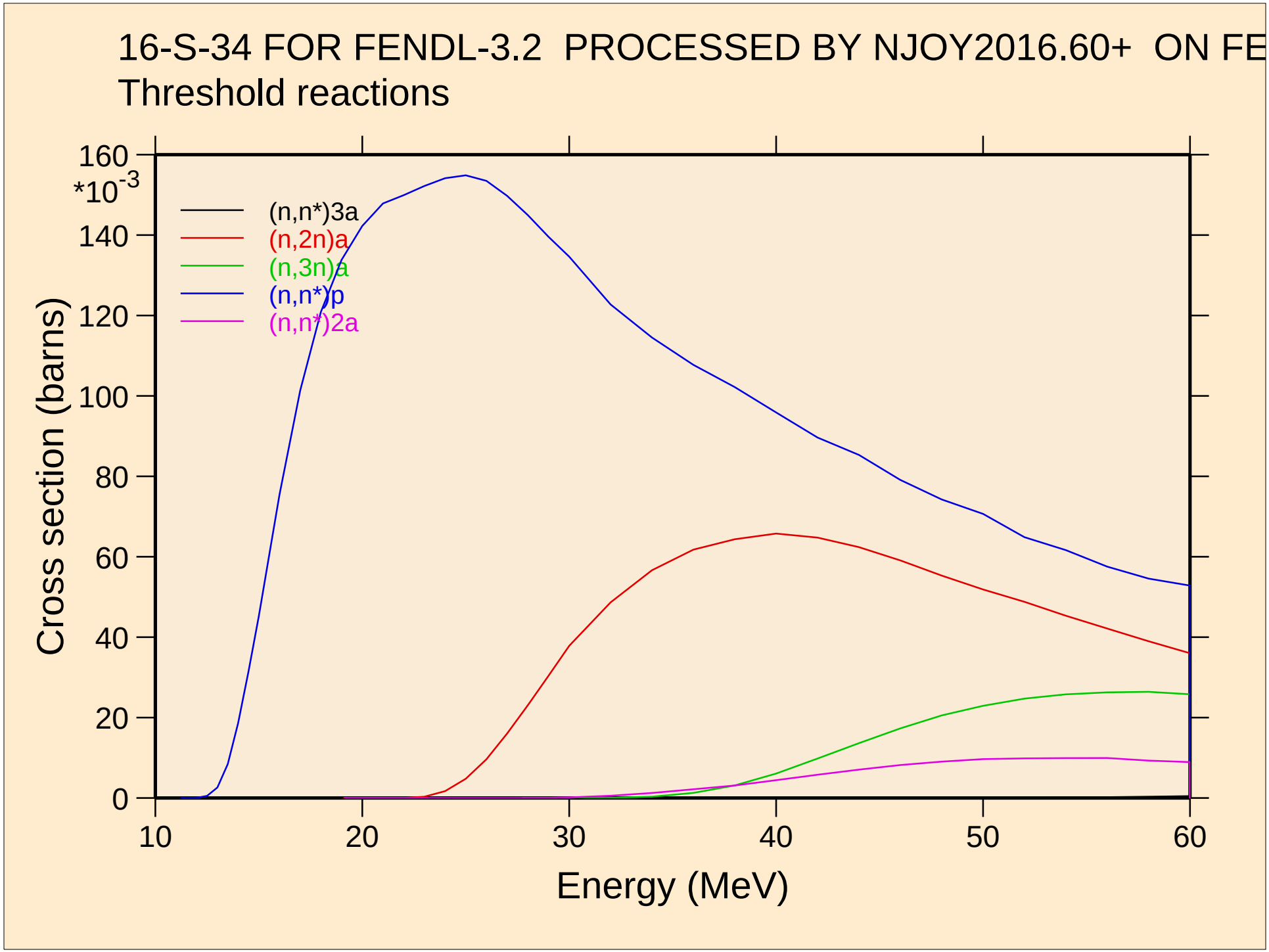

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Inelastic levels
Cross section (barns)
*10-3
60
50
40
30
20
10
0
0
10
20
30
40
50
60
Energy (MeV)
(n,n*11)
(n,n*12)
(n,n*13)
(n,n*14)
(n,n*15)

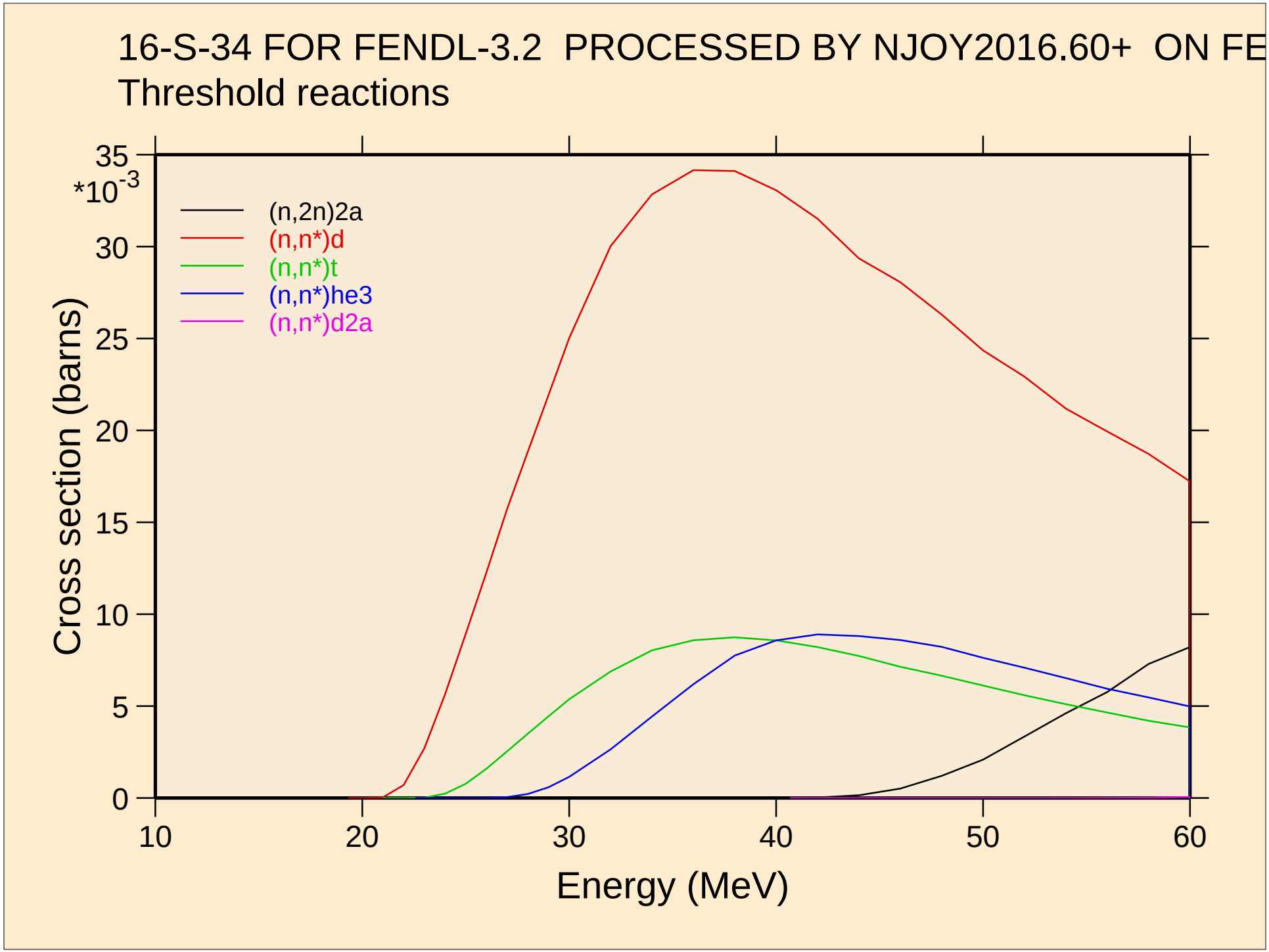

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Inelastic levels
Cross section (barns)
*10-3
35
30
25
20
15
10
5
0
0
10
20
30
40
50
60
Energy (MeV)
(n,n*16)
(n,n*17)
(n,n*18)
(n,n*19)
(n,n*20)

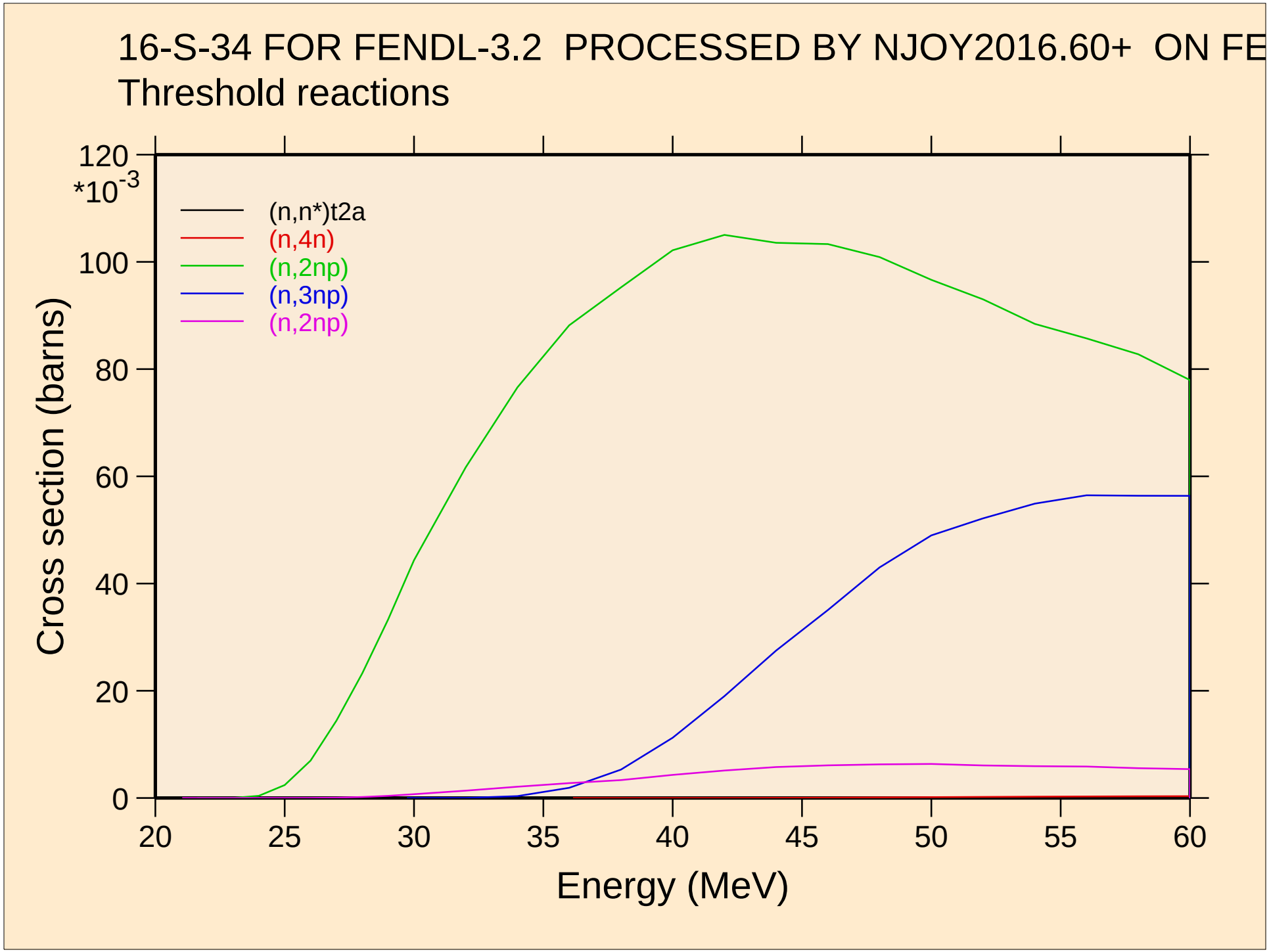

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Inelastic levels
*10-3
Cross section (barns)
Energy (MeV)
(n,n*21)
(n,n*22)
(n,n*23)
(n,n*24)
(n,n*25)
0
5
10
15
20
25
30
0
10
20
30
40
50
60

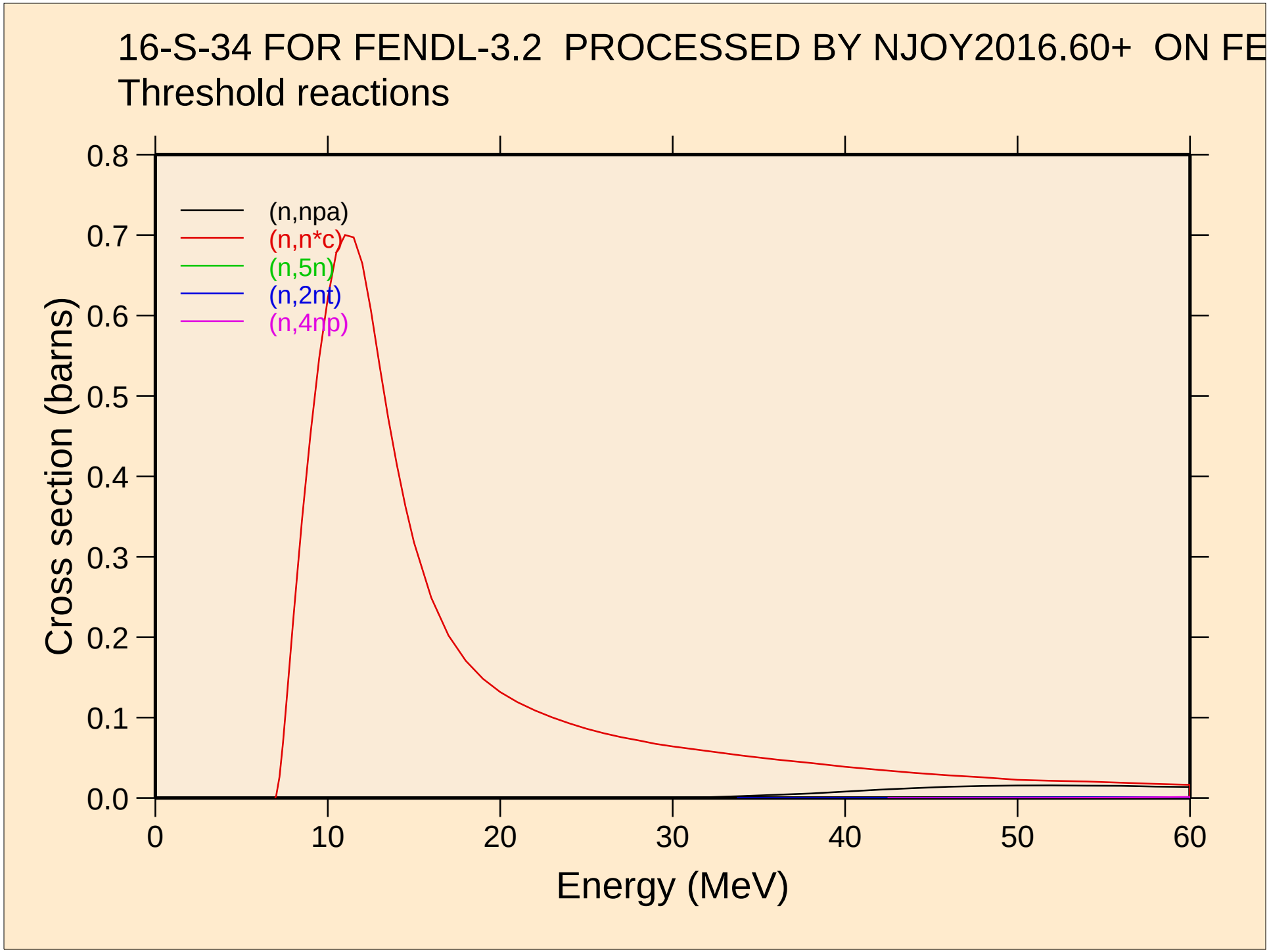

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Inelastic levels
*10-3
25
20
15
10
5
0
Cross section (barns)
0
10
20
30
40
50
60
Energy (MeV)
(n,n*26)
(n,n*27)
(n,n*28)
(n,n*29)
(n,n*30)

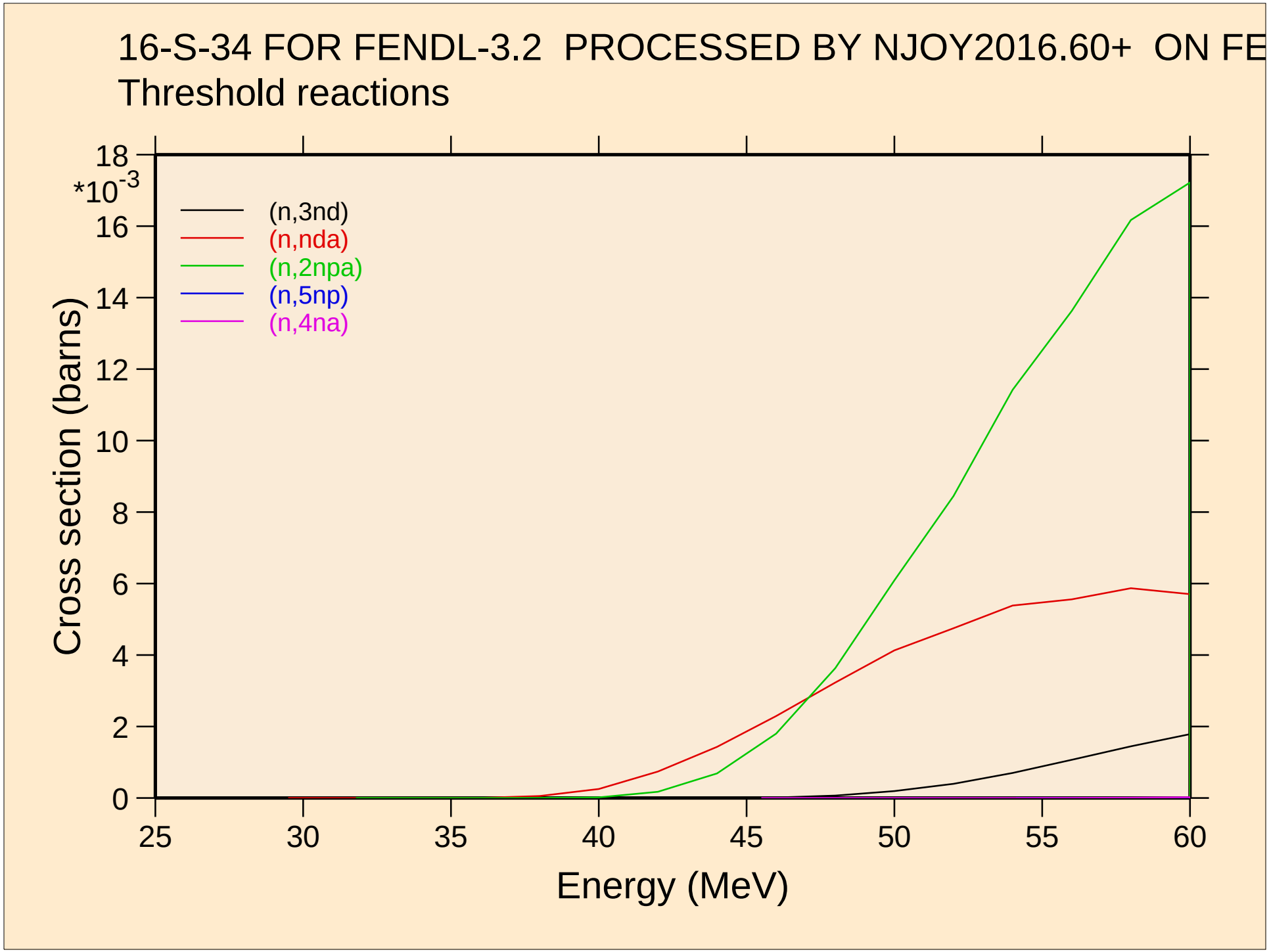

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
(n,x)
(n,2nd)
(n,2n)
(n,3n)
(n,n*)a
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

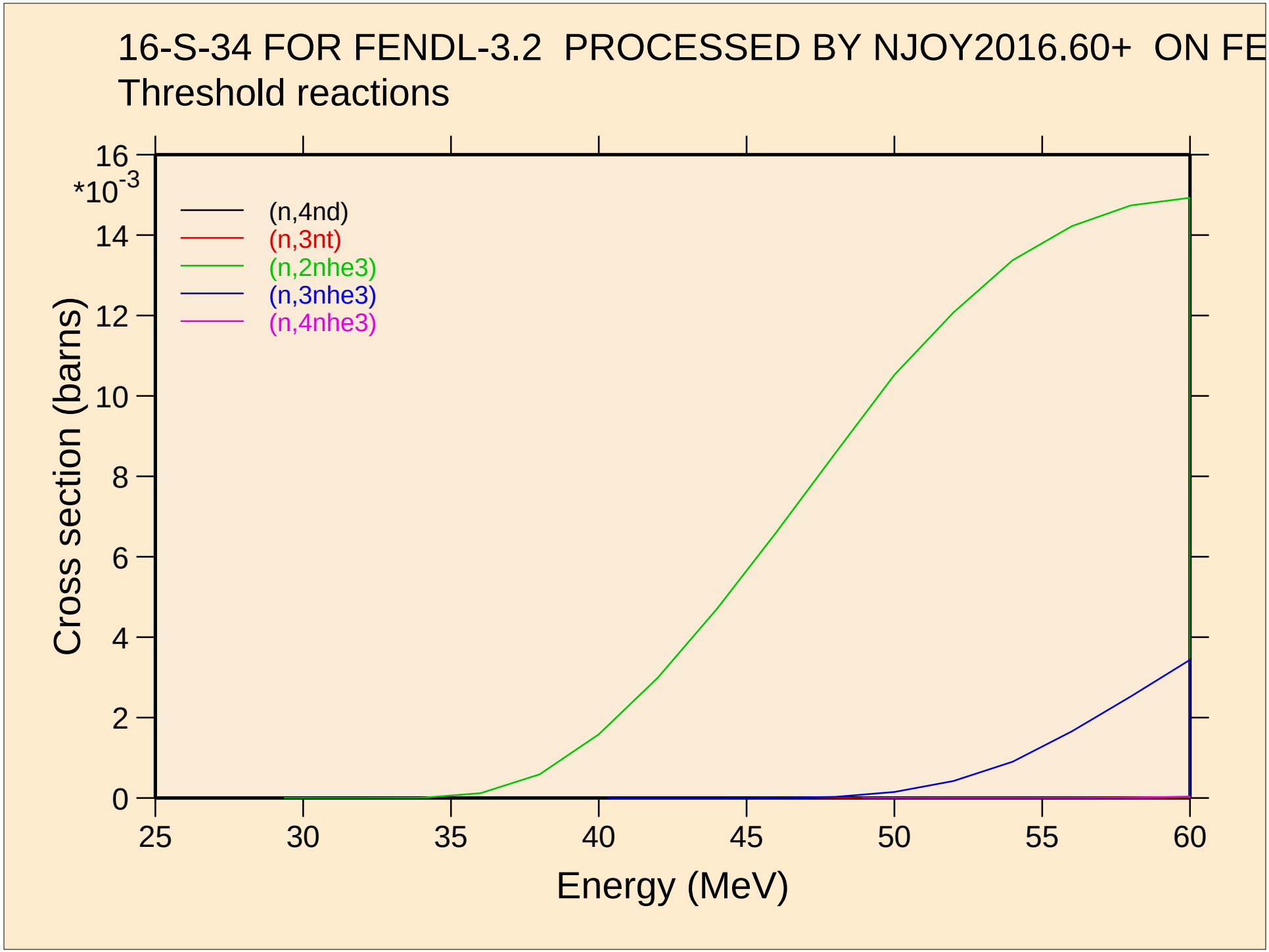

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
160
*10-3
140
120
100
80
60
40
20
0
Cross section (barns)
(n,n*)3a
(n,2n)a
(n,3n)a
(n,n*)p
(n,n*)2a
10
20
30
40
50
60
Energy (MeV)

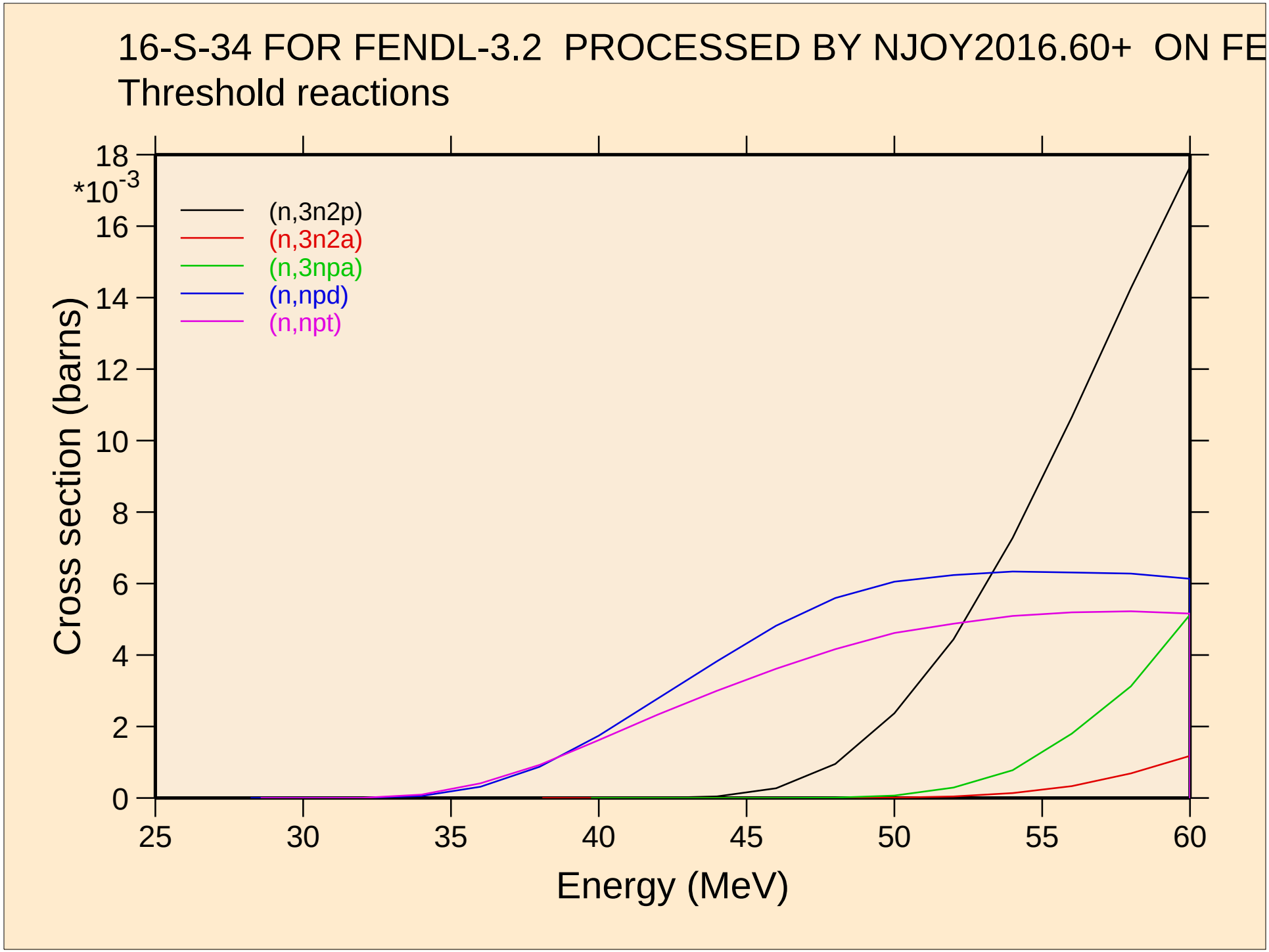

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
Cross section (barns)
*10-3
35
30
25
20
15
10
5
0
10
20
30
40
50
60
Energy (MeV)
(n,2n)2a
(n,n*)d
(n,n*)t
(n,n*)he3
(n,n*)d2a

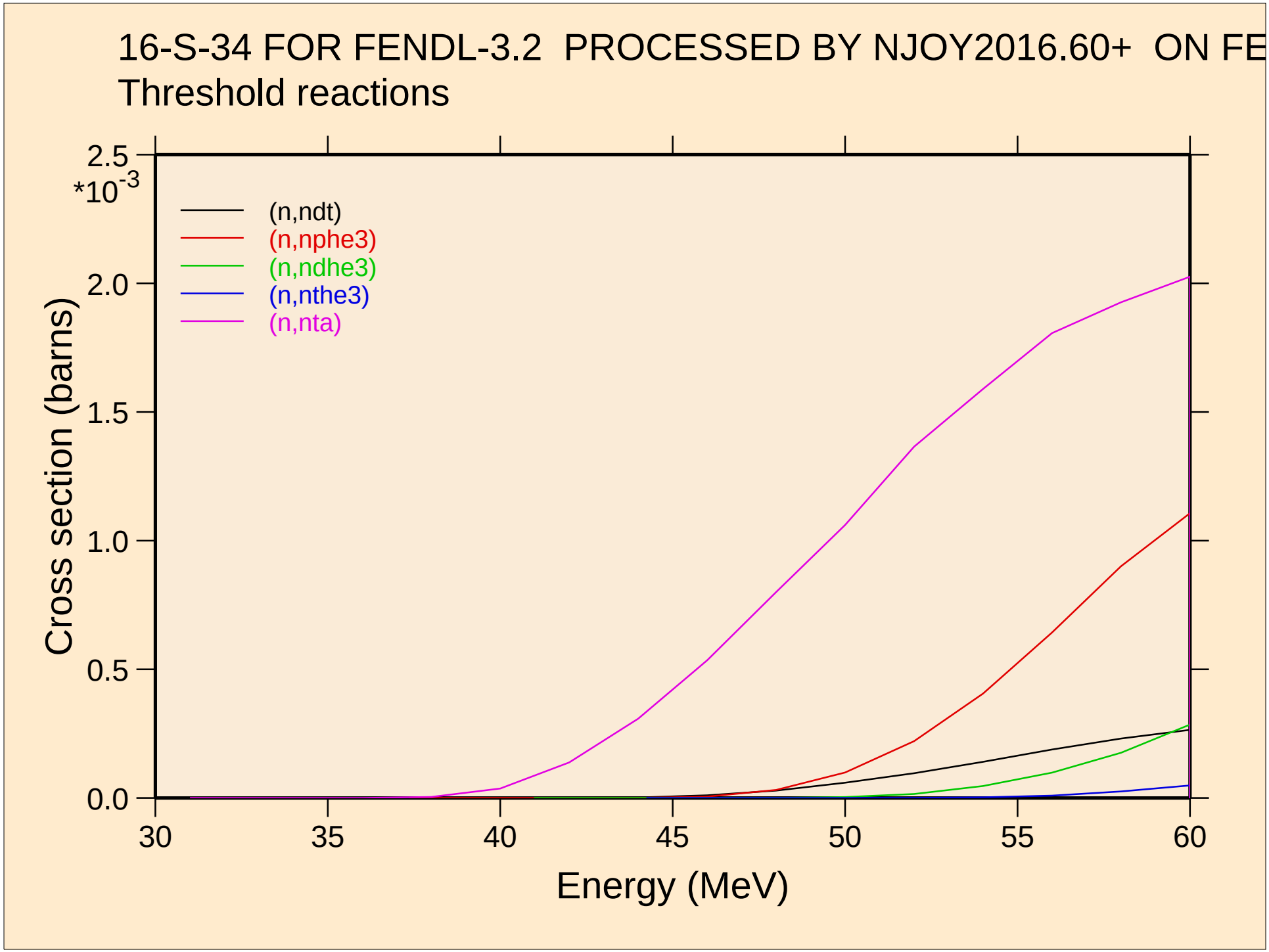

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
120
*10-3
100
80
60
40
20
0
Cross section (barns)
(n,n*)t2a
(n,4n)
(n,2np)
(n,3np)
(n,2np)
20
25
30
35
40
45
50
55
60
Energy (MeV)

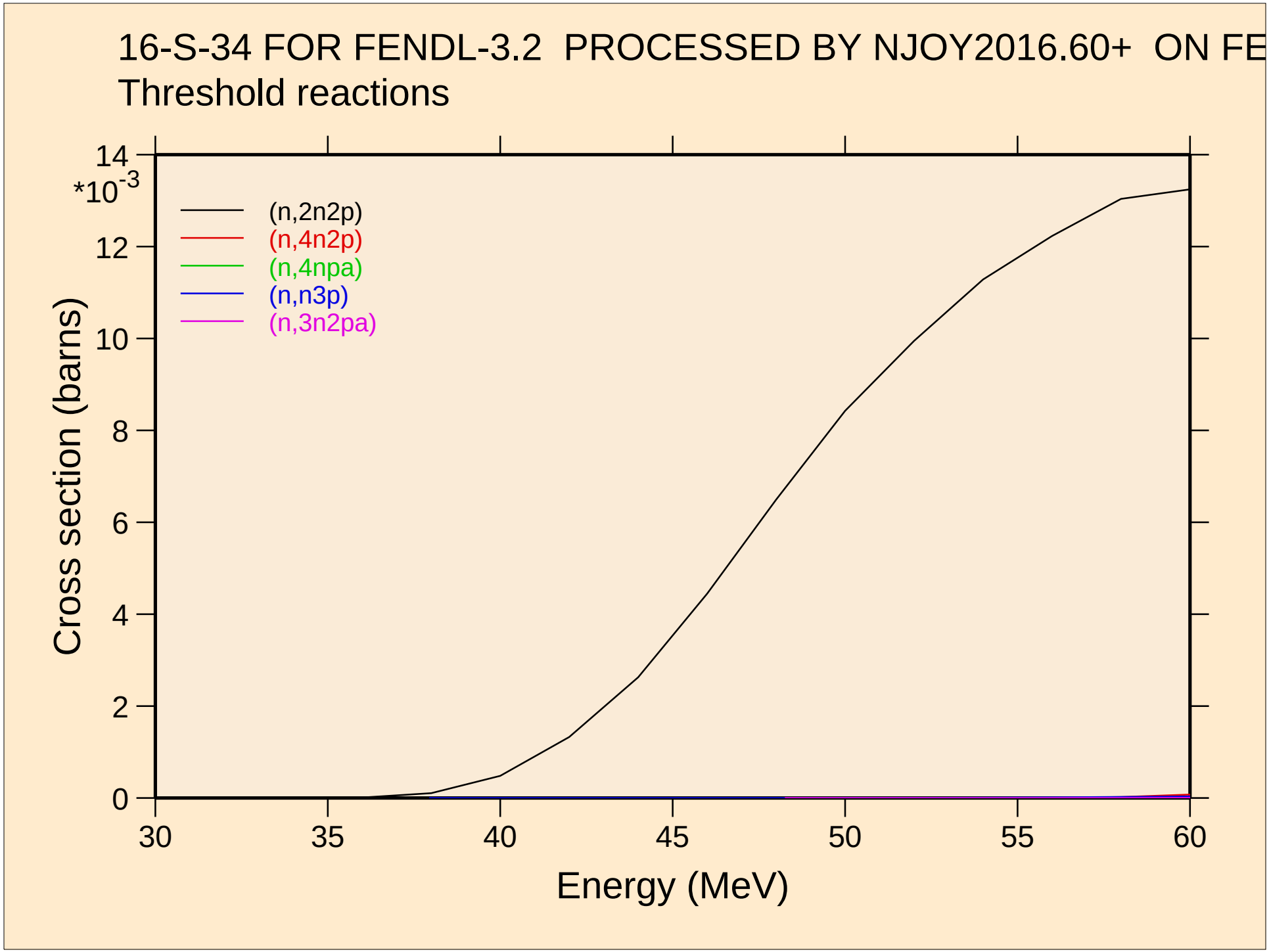

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
(n,npa)
(n,n*c)
(n,5n)
(n,2nt)
(n,4np)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
10
20
30
40
50
60
Energy (MeV)

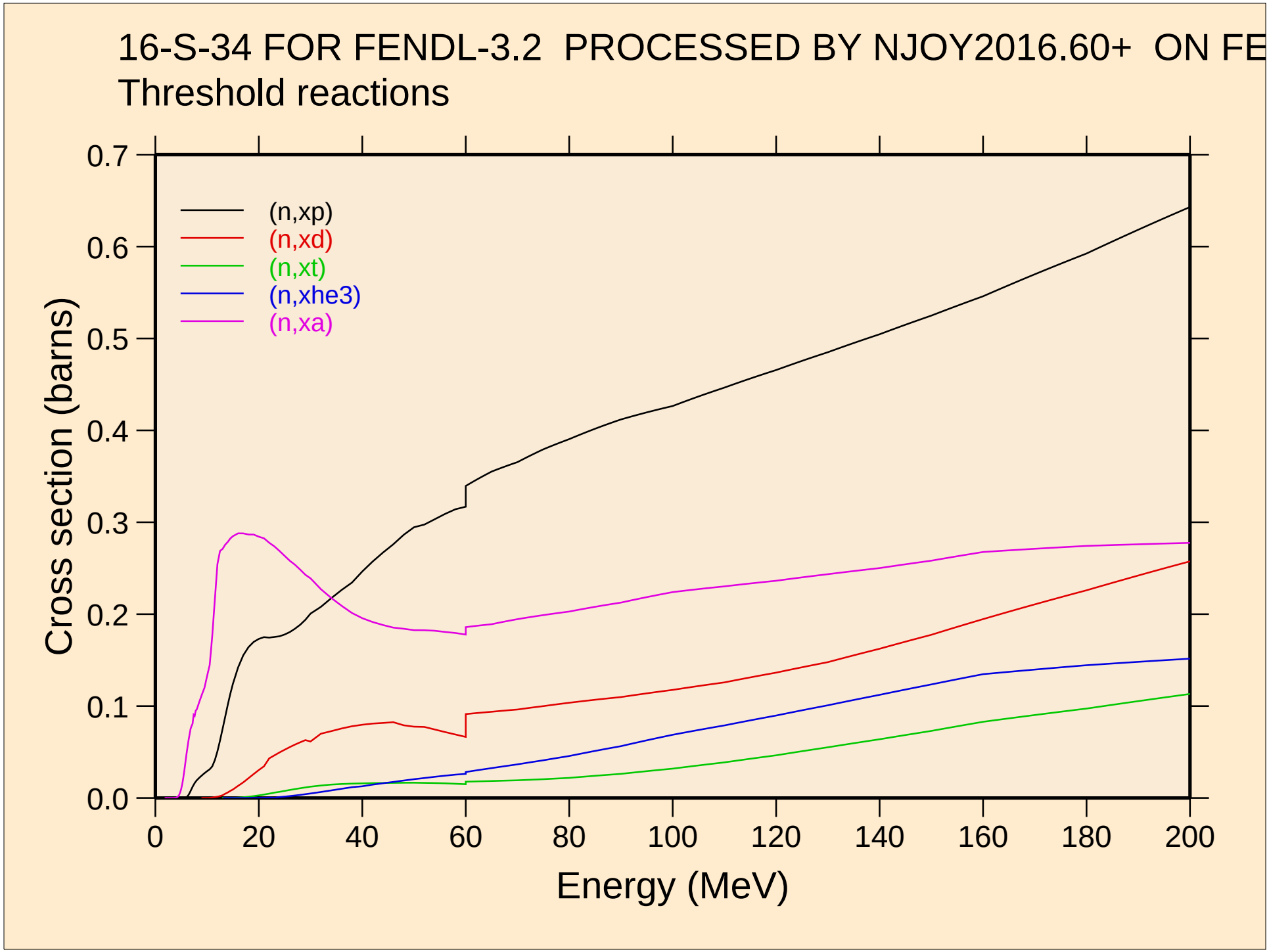

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(n,3nd)
(n,nda)
(n,2npa)
(n,5np)
(n,4na)
0
2
4
6
8
10
12
14
16
18
25
30
35
40
45
50
55
60

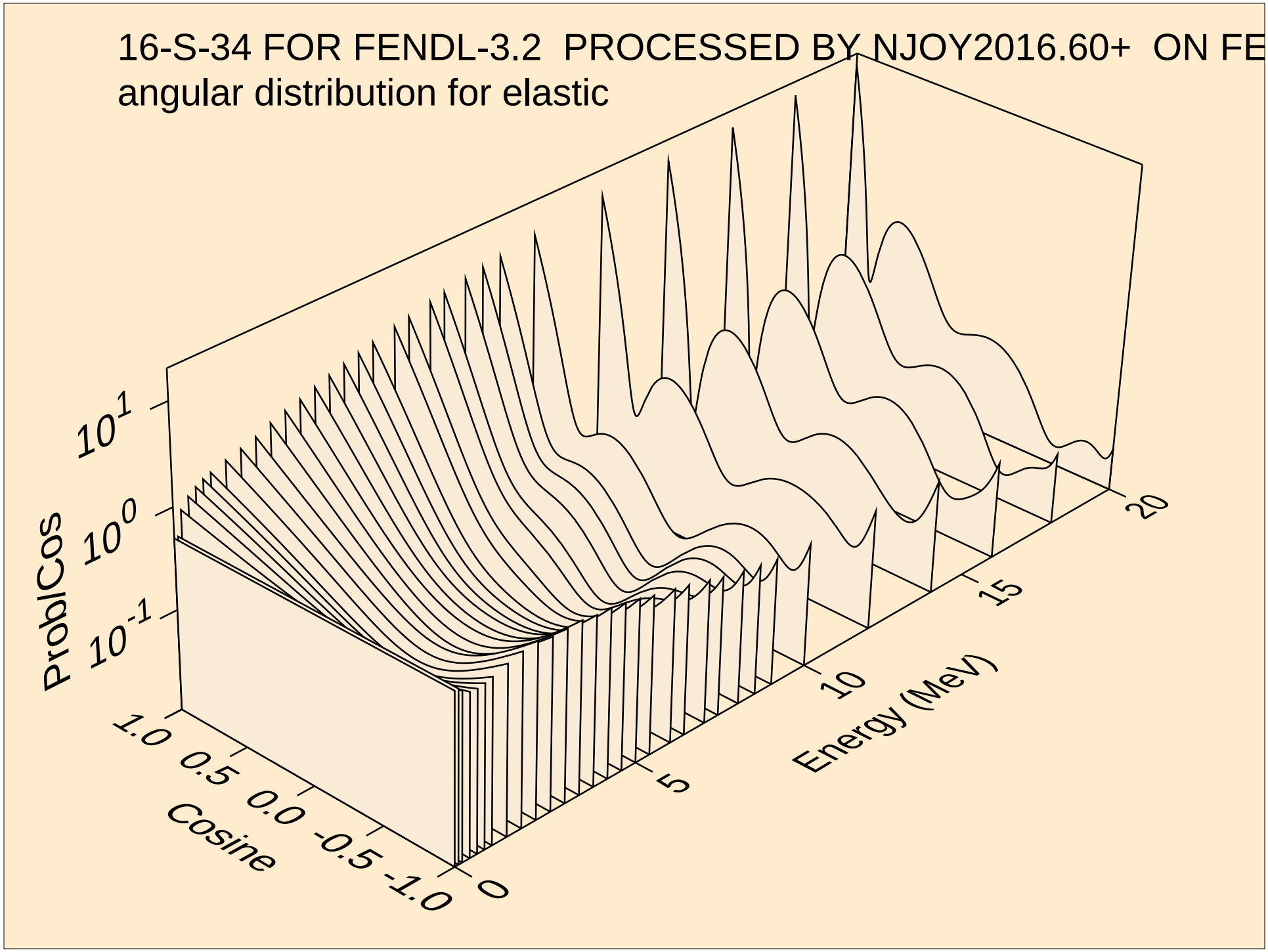

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(n,4nd)
(n,3nt)
(n,2nhe3)
(n,3nhe3)
(n,4nhe3)
0
2
4
6
8
10
12
14
16
25
30
35
40
45
50
55
60

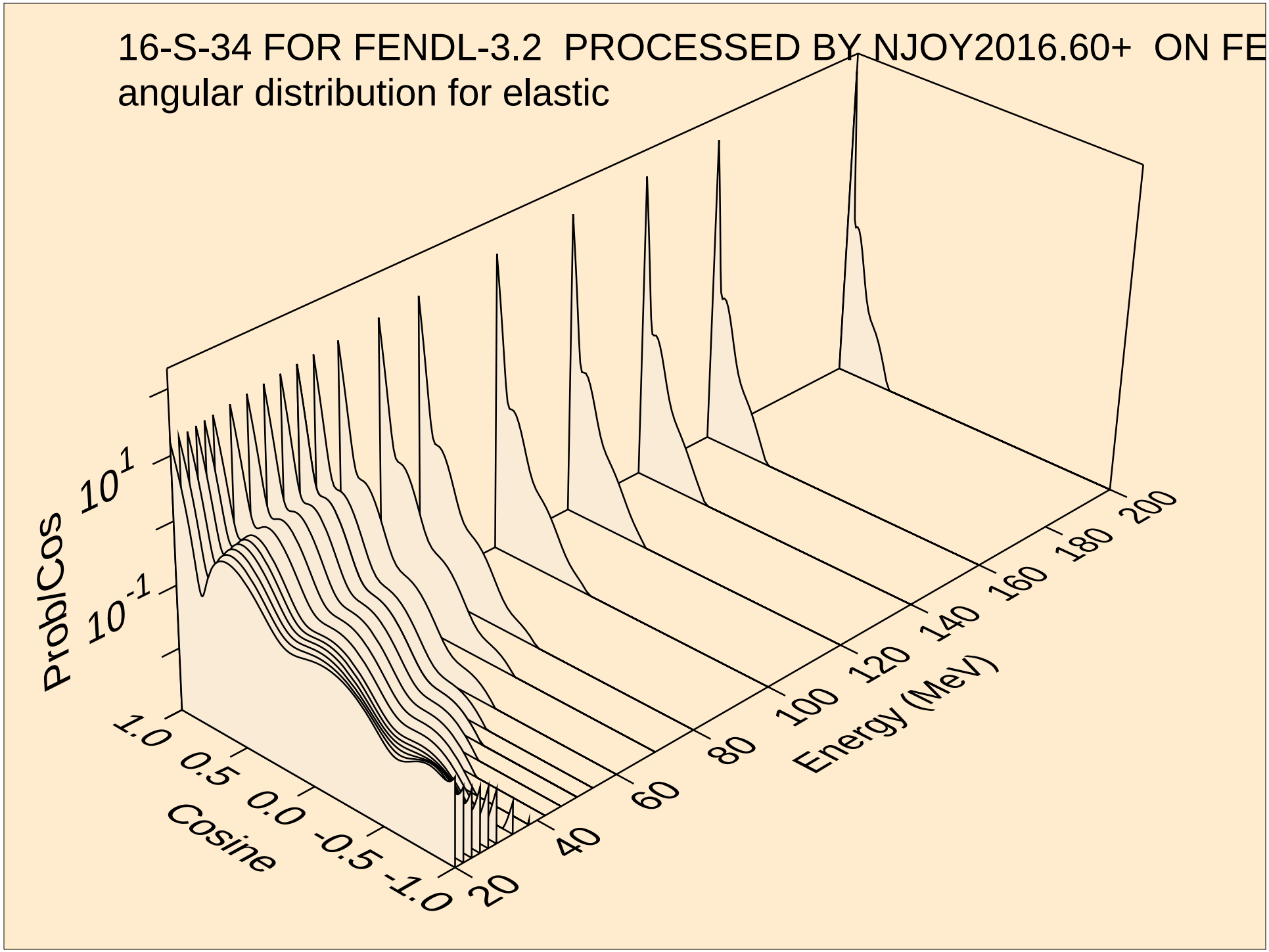

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
*10-3
Cross section (barns)
Energy (MeV)
(n,3n2p)
(n,3n2a)
(n,3npa)
(n,npd)
(n,npt)
0
2
4
6
8
10
12
14
16
18
25
30
35
40
45
50
55
60

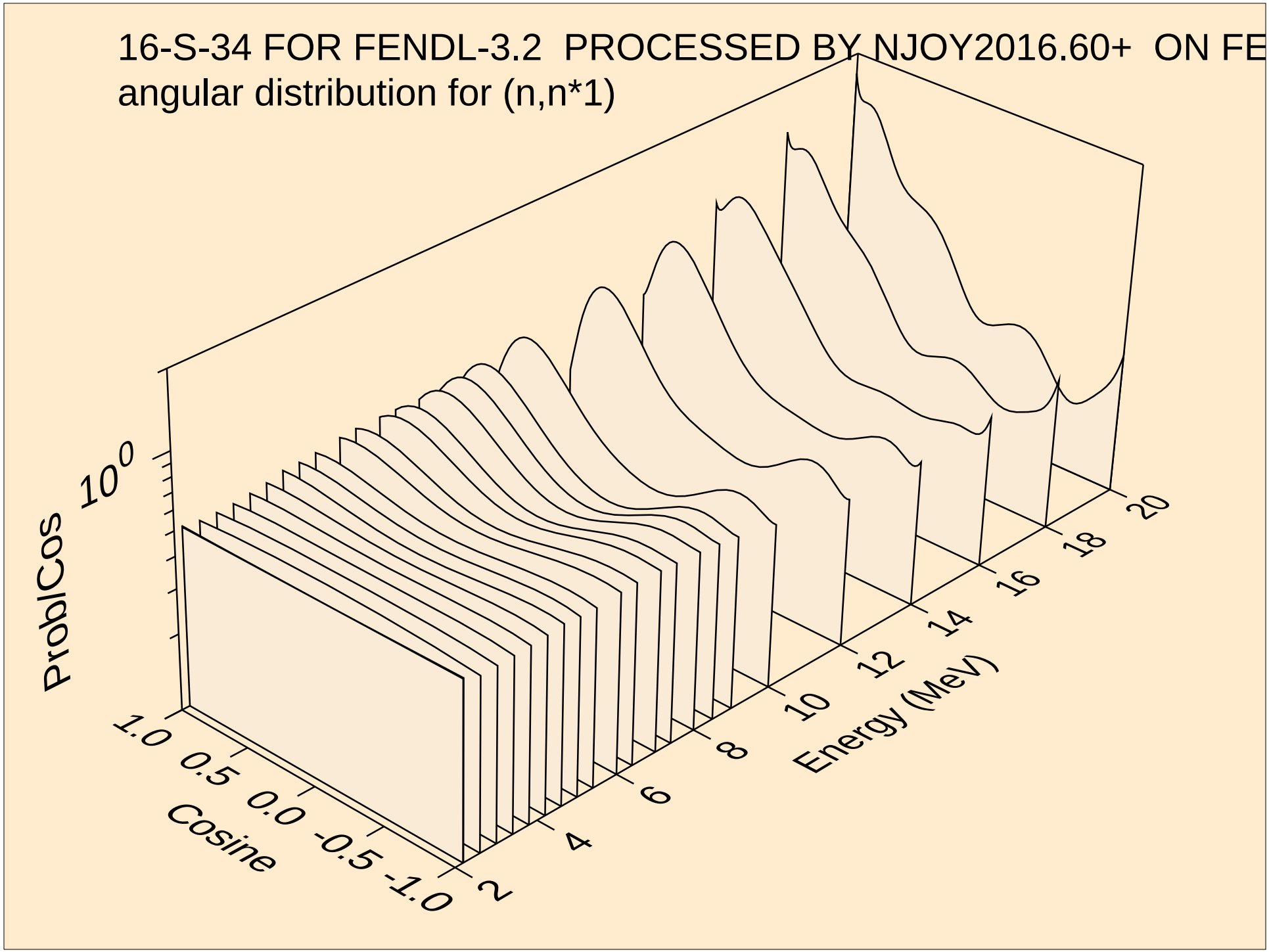

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
2.5
*10-3
2.0
1.5
1.0
0.5
0.0
Cross section (barns)
(n,ndt)
(n,nphe3)
(n,ndhe3)
(n,nthe3)
(n,nta)
30
35
40
45
50
55
60
Energy (MeV)

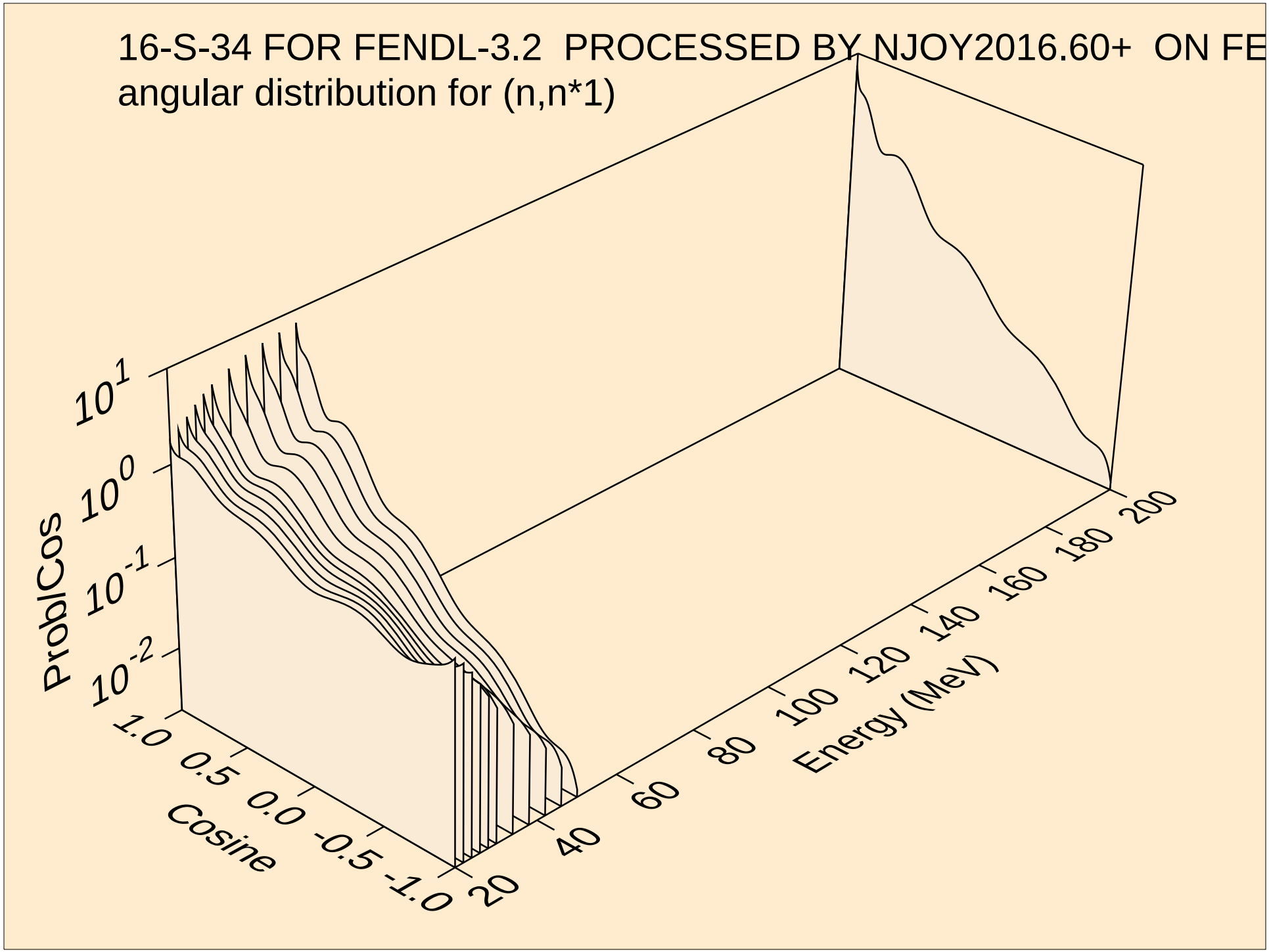

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
*10-3
14
12
10
8
6
4
2
0
(n,2n2p)
(n,4n2p)
(n,4npa)
(n,n3p)
(n,3n2pa)
Cross section (barns)
30
35
40
45
50
55
60
Energy (MeV)

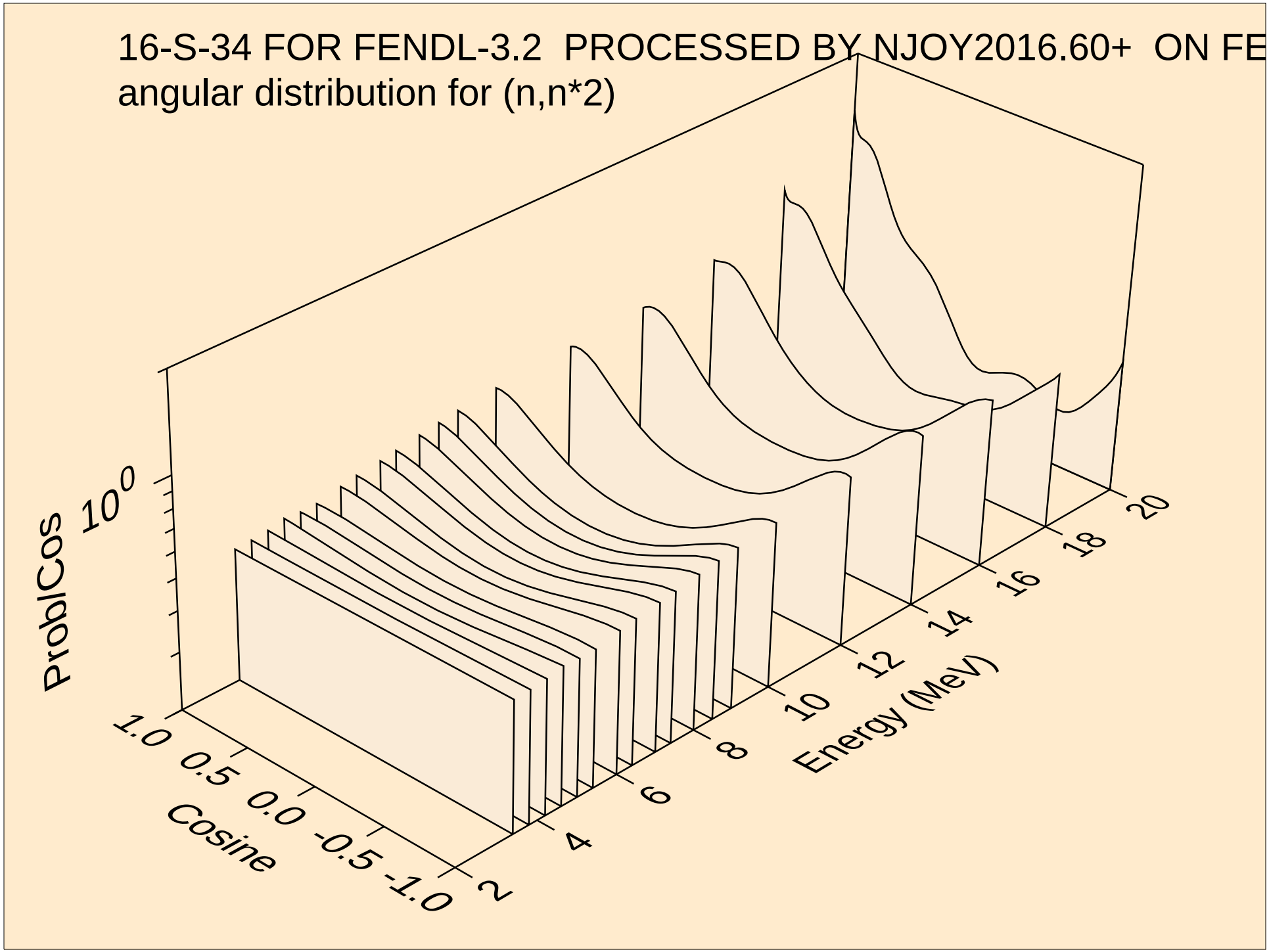

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Threshold reactions
(n,xp)
(n,xd)
(n,xt)
(n,xhe3)
(n,xa)
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

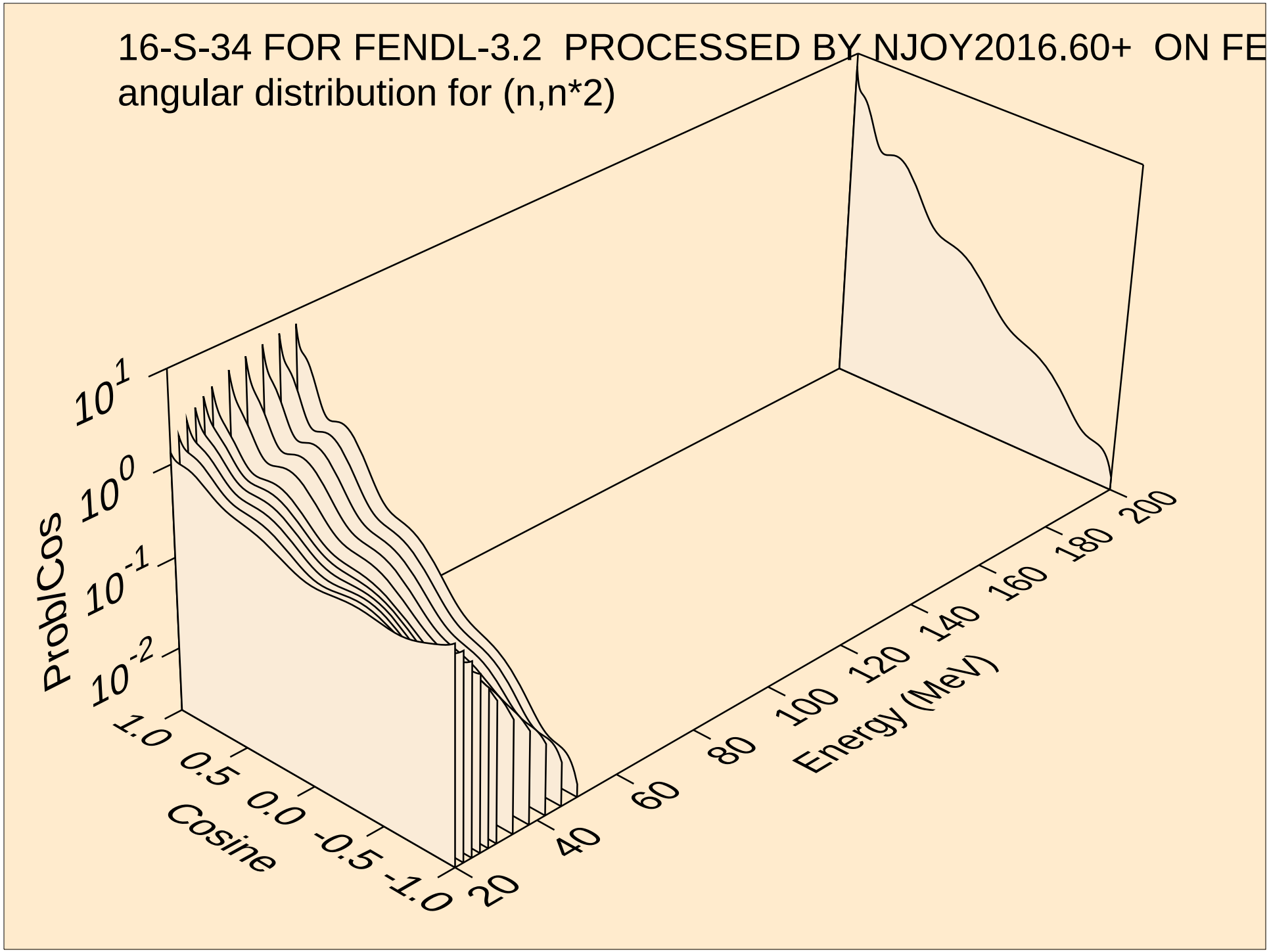

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for elastic
ProbICos
10^{1}
10^{0}
10^{-1}
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
Energy (MeV)

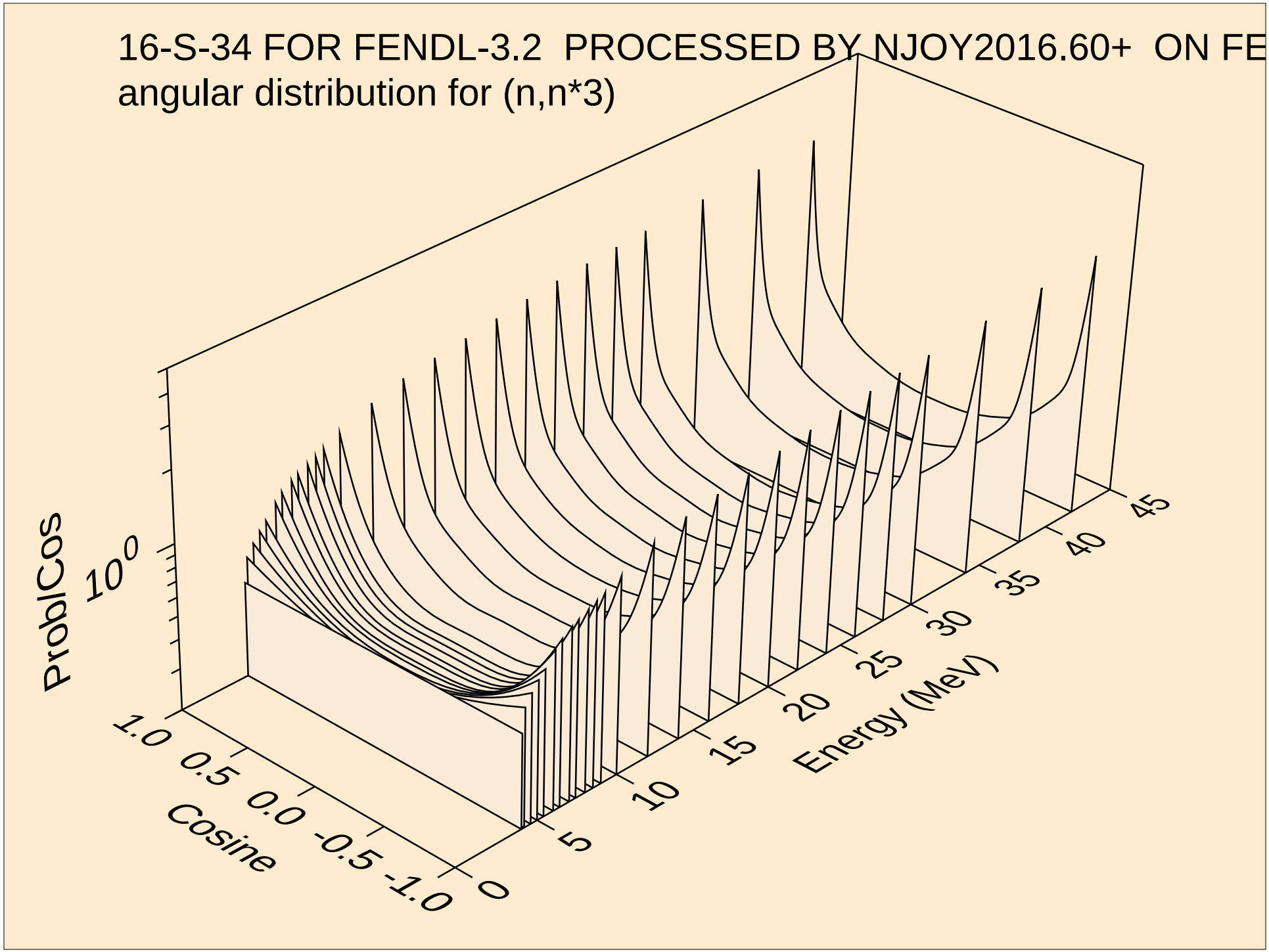

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

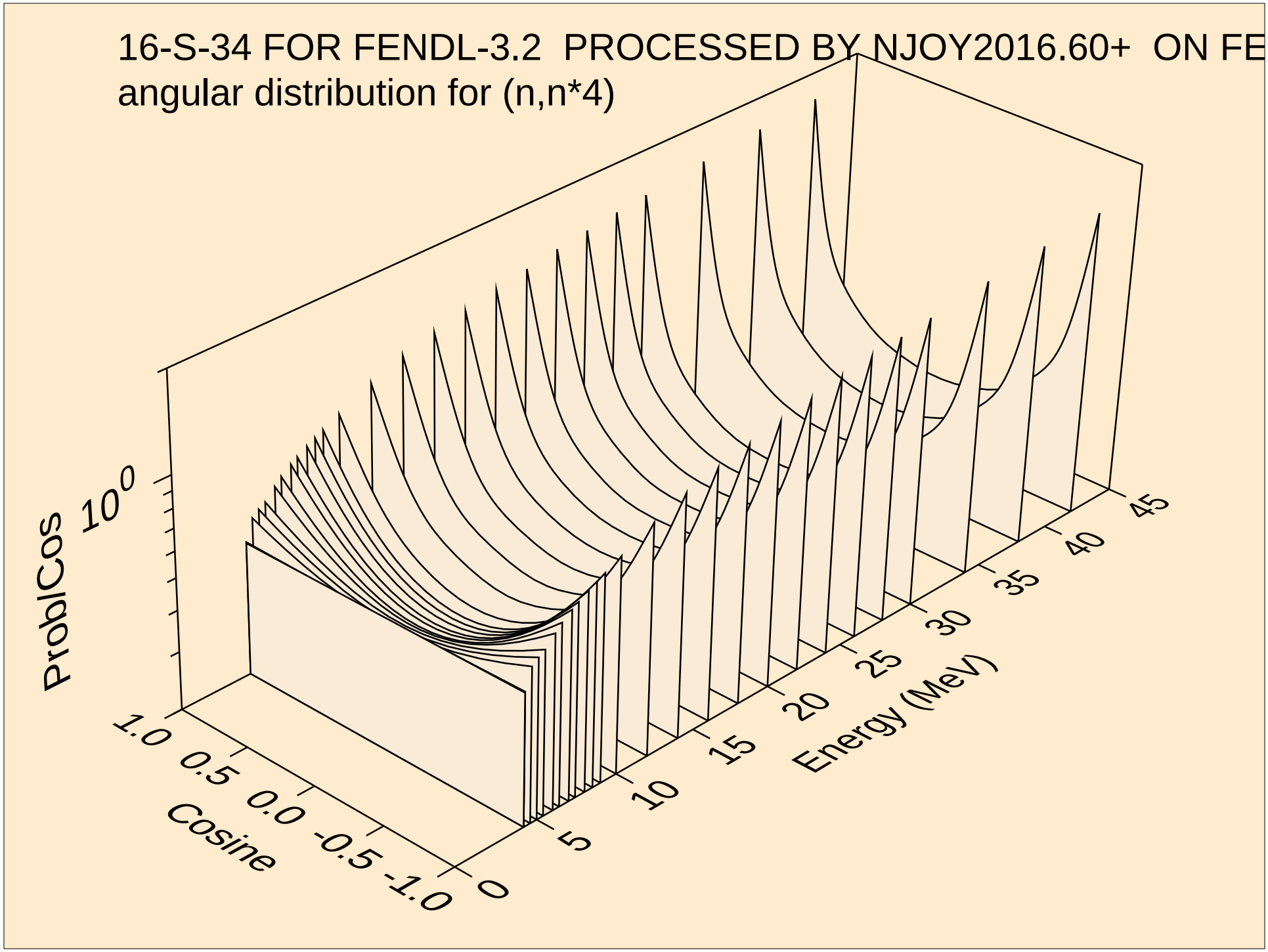

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*1)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

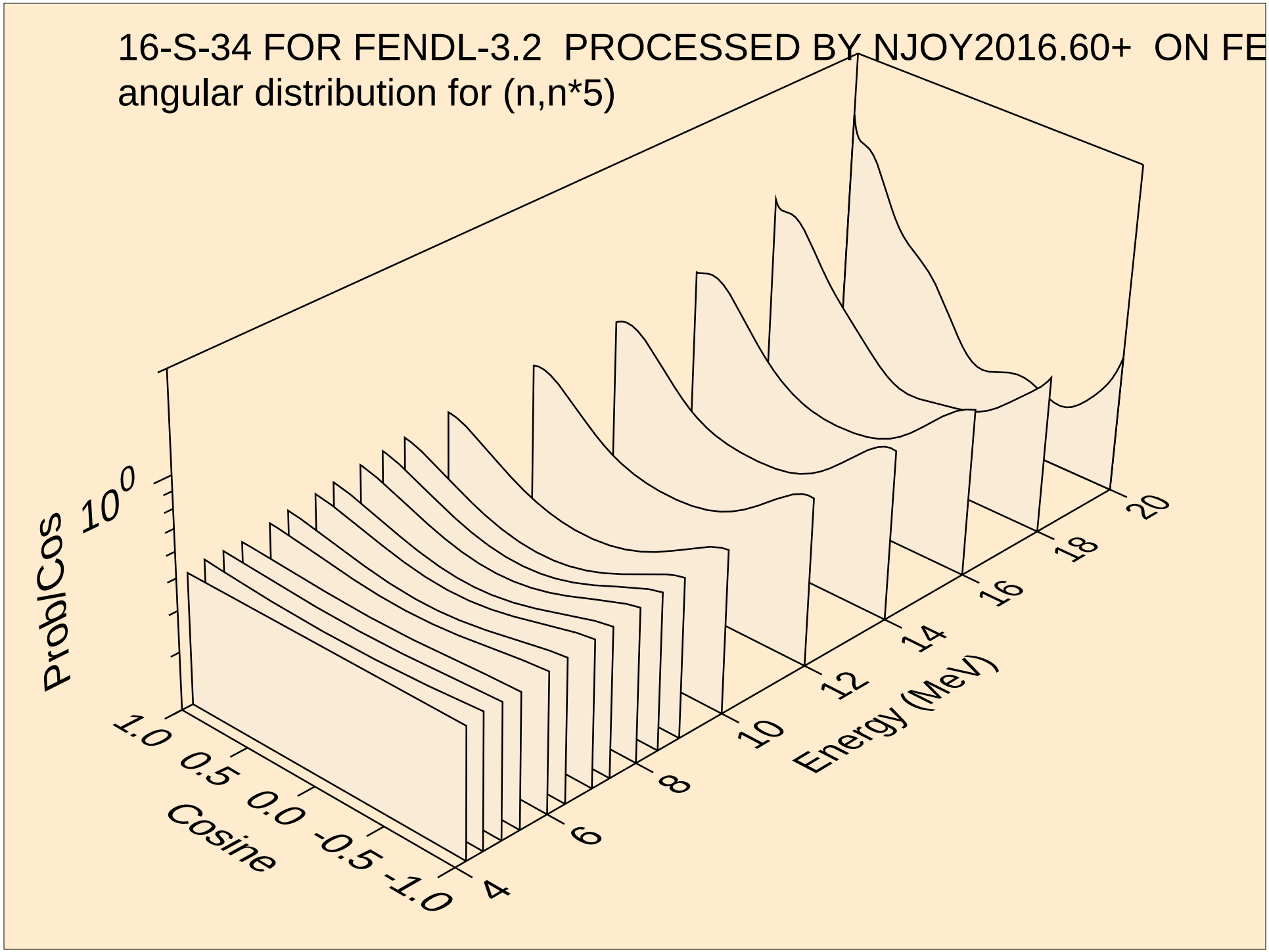

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*1)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

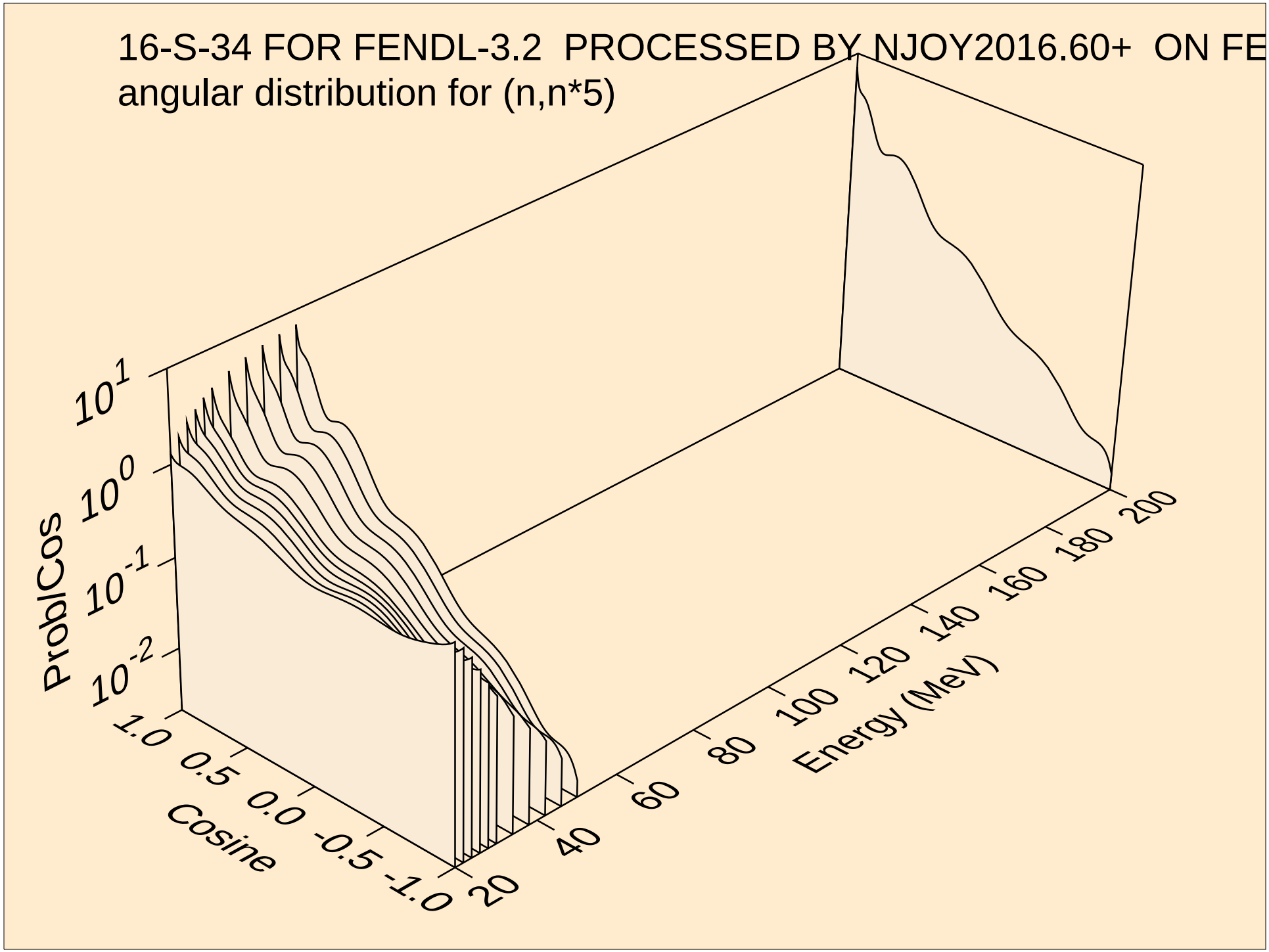

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*2)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
2
4
6
8
10
12
14
16
18
20
Energy (MeV)

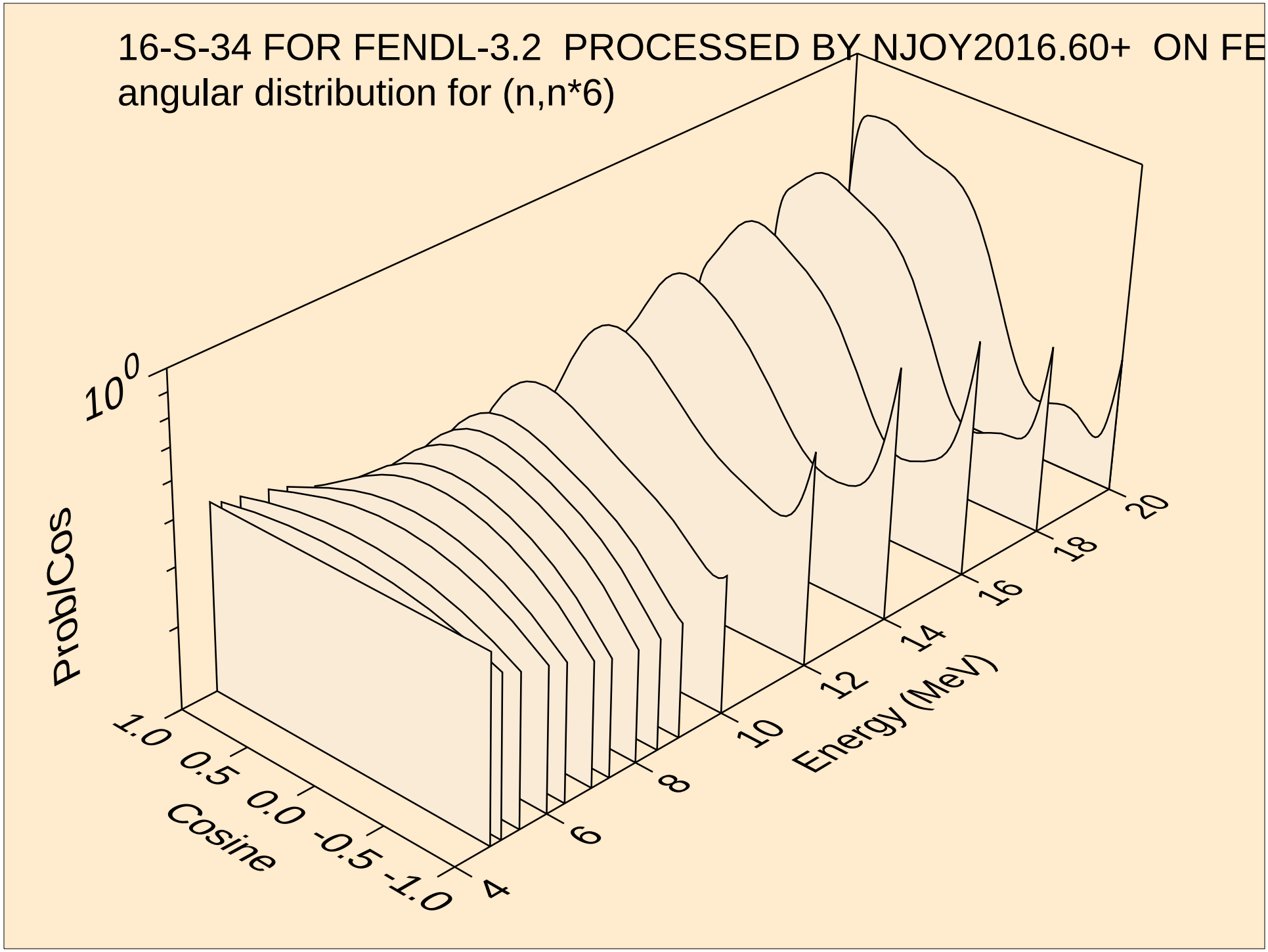

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*2)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

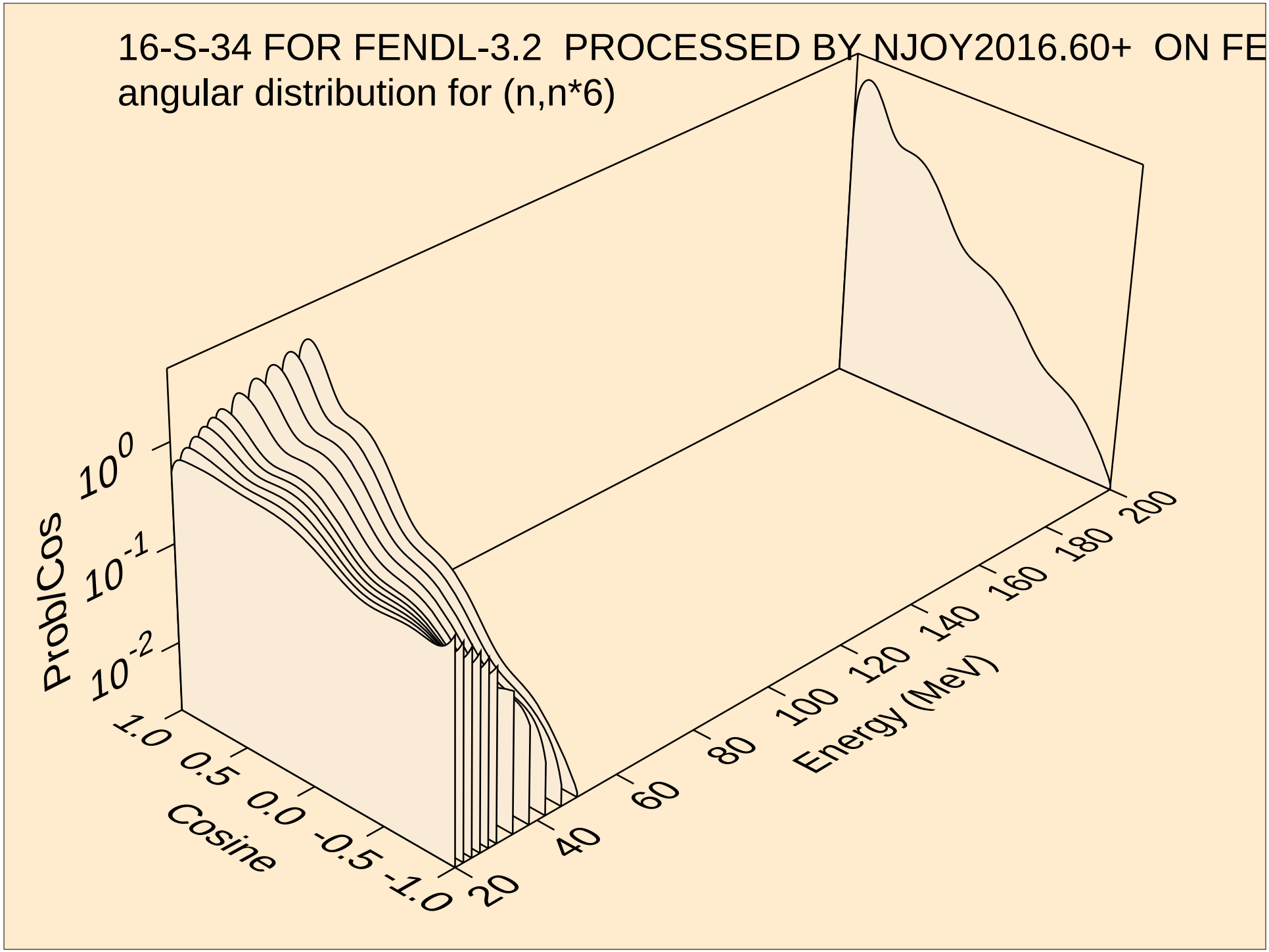

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*3)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
35
40
45
Energy (MeV)

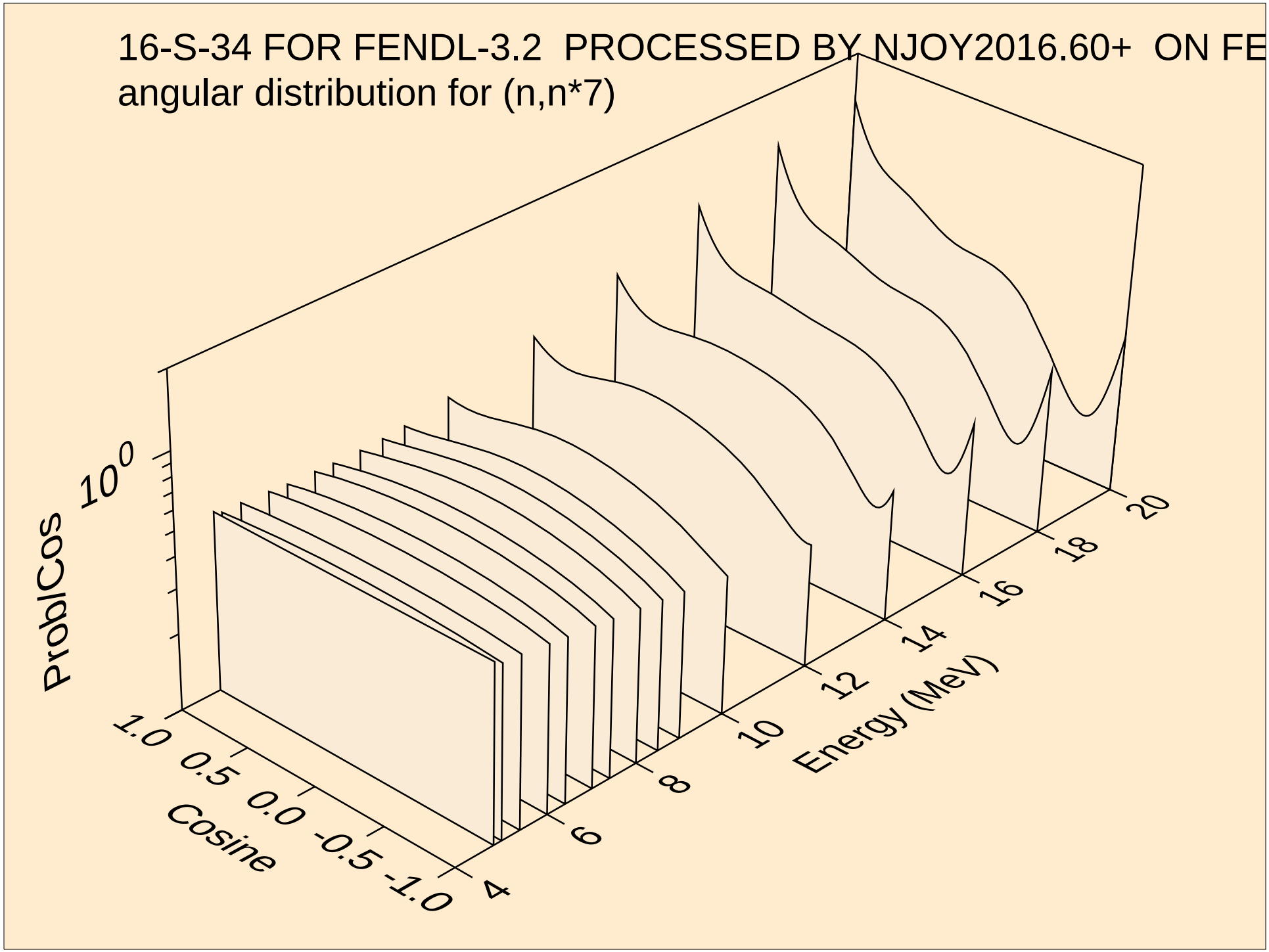

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*4)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
5
10
15
20
25
30
35
40
45
Energy (MeV)

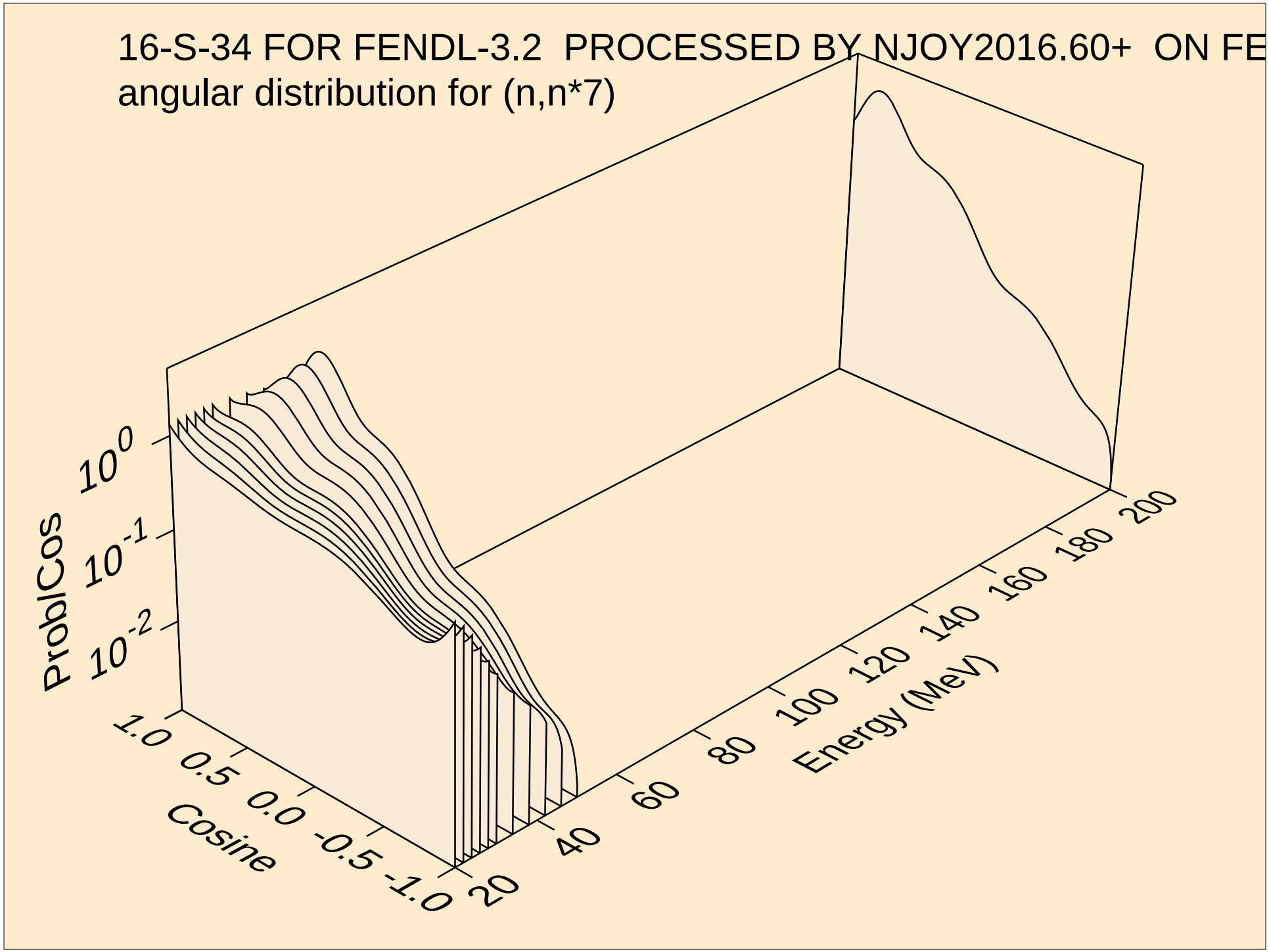

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*5)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

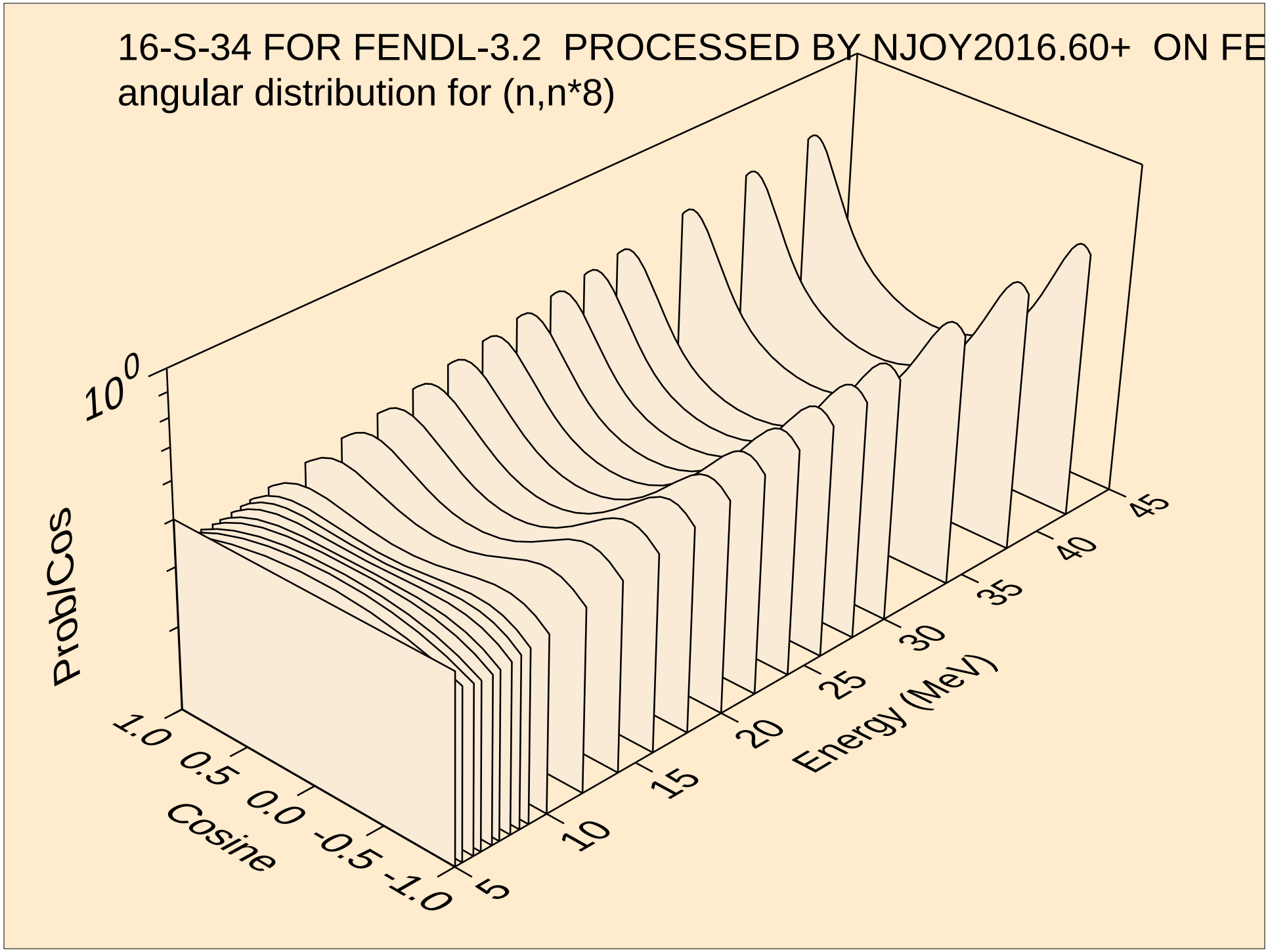

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*5)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

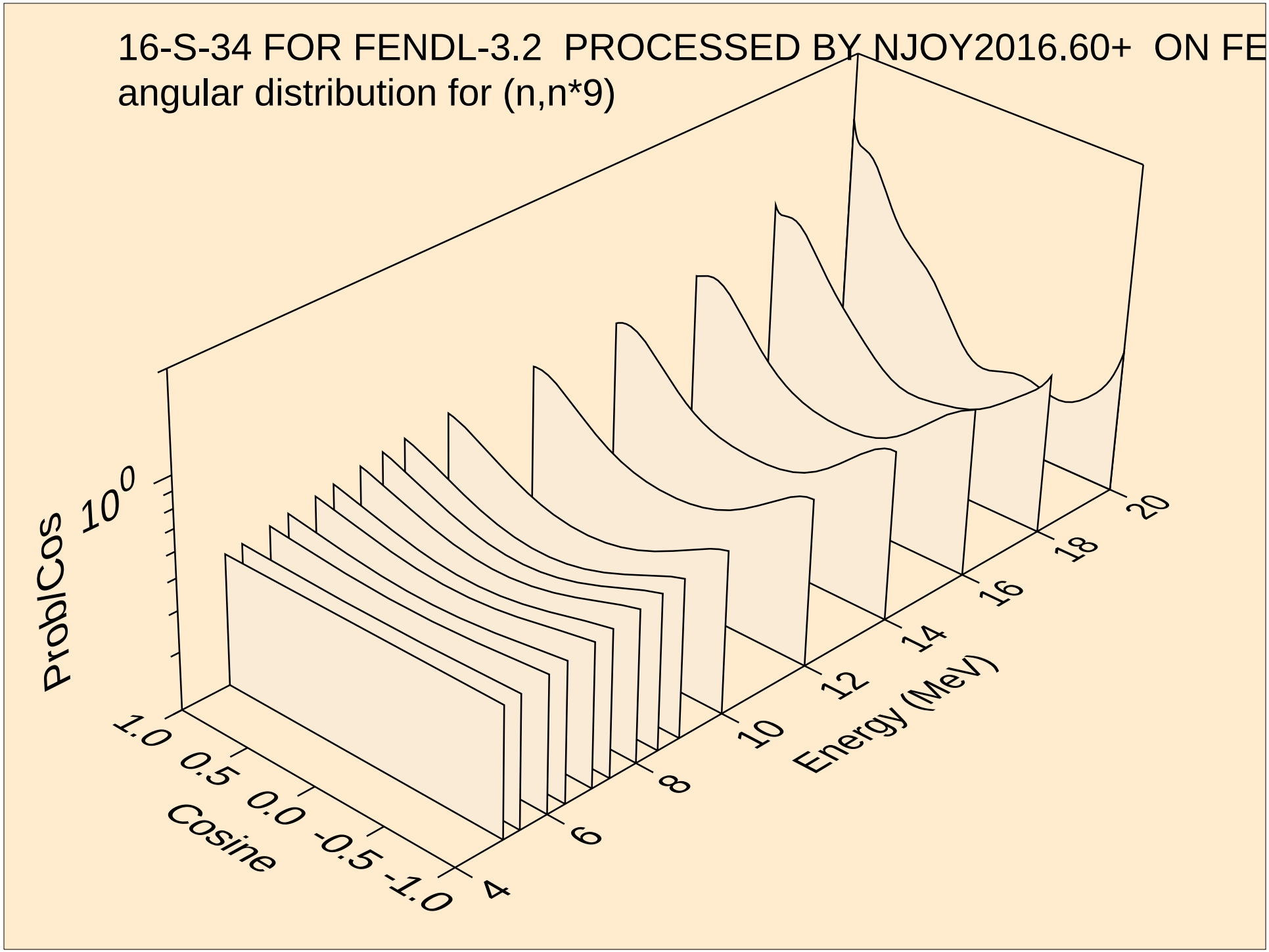

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*6)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

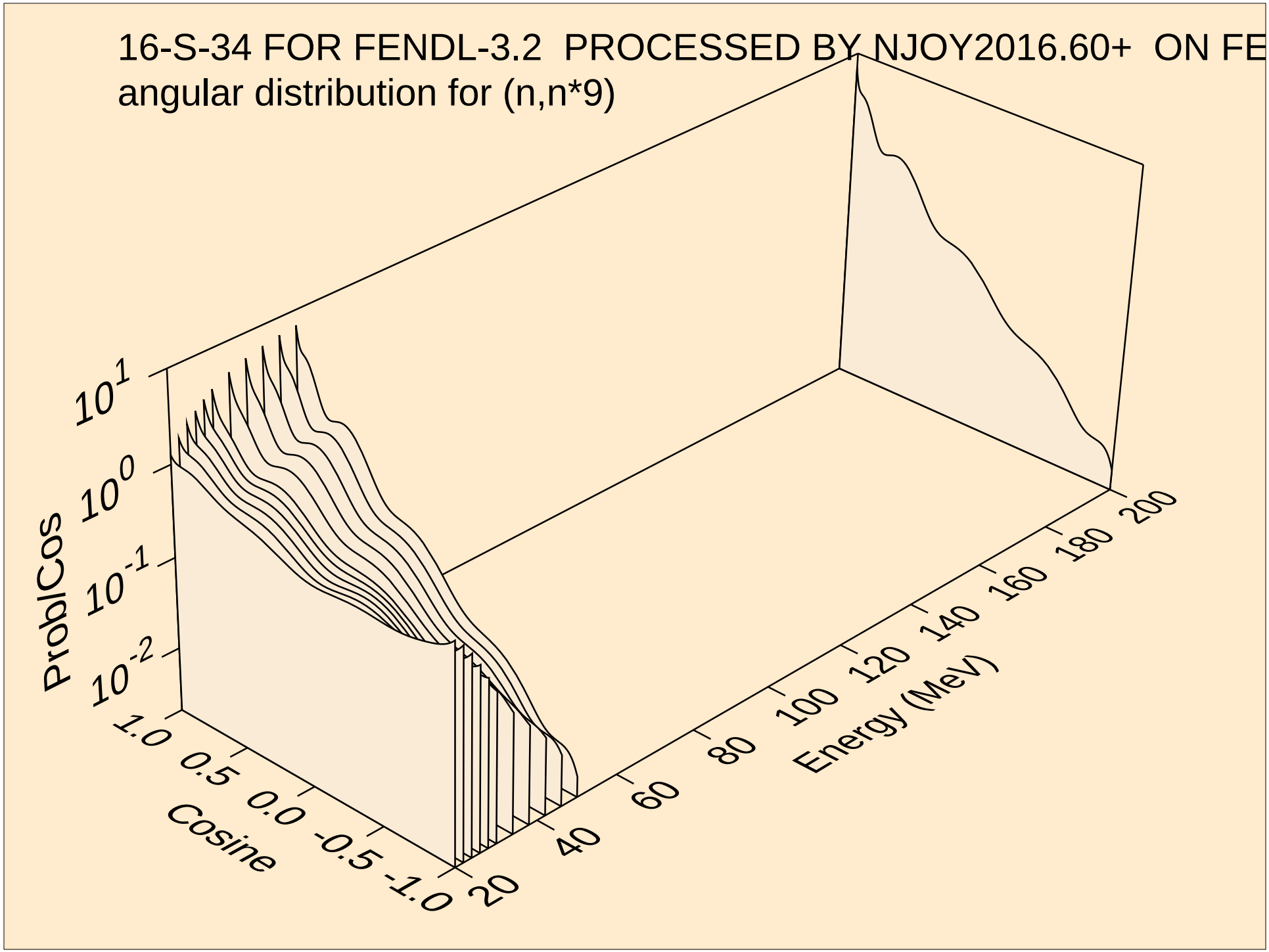

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*6)
ProblCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

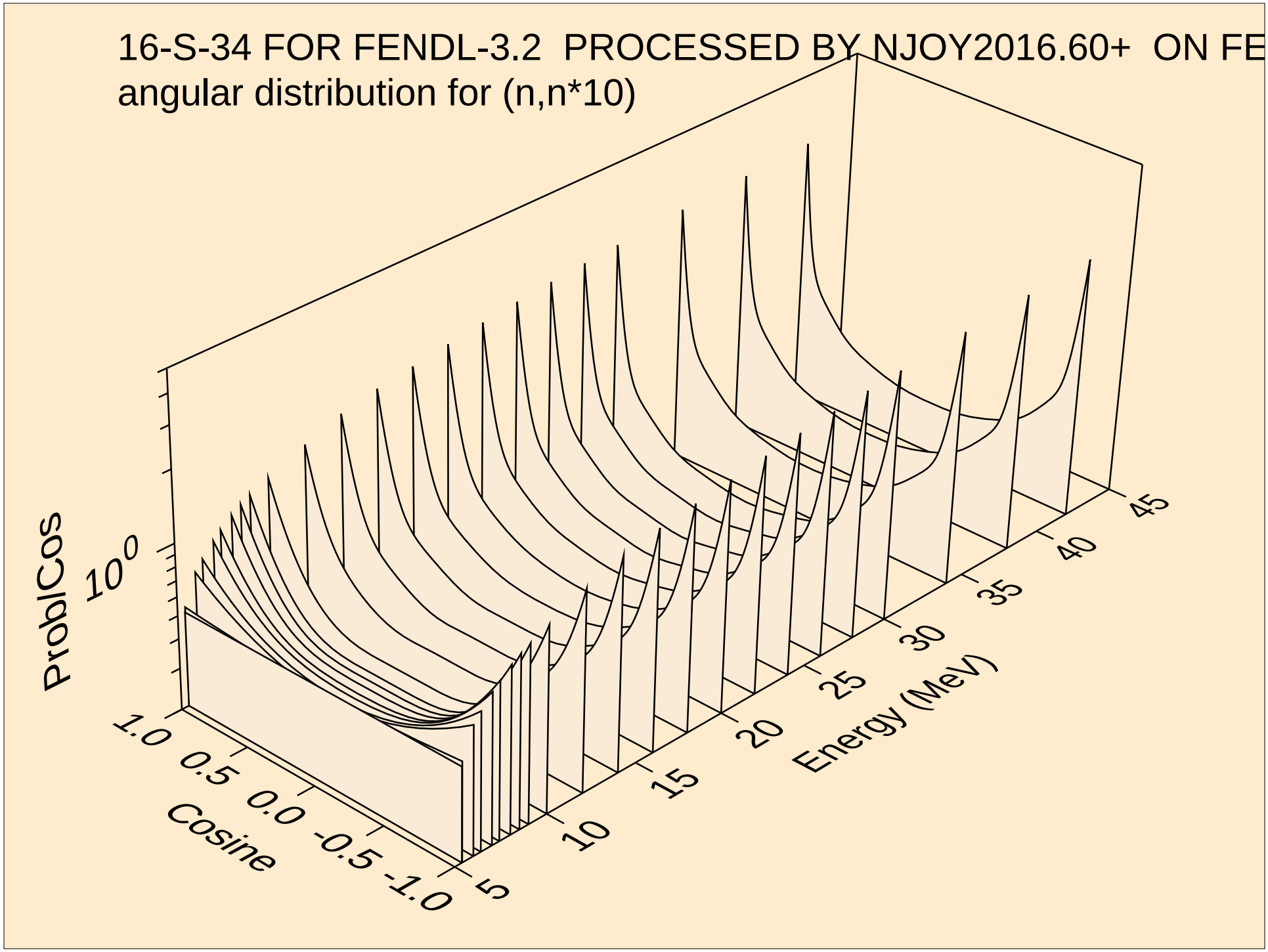

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*7)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

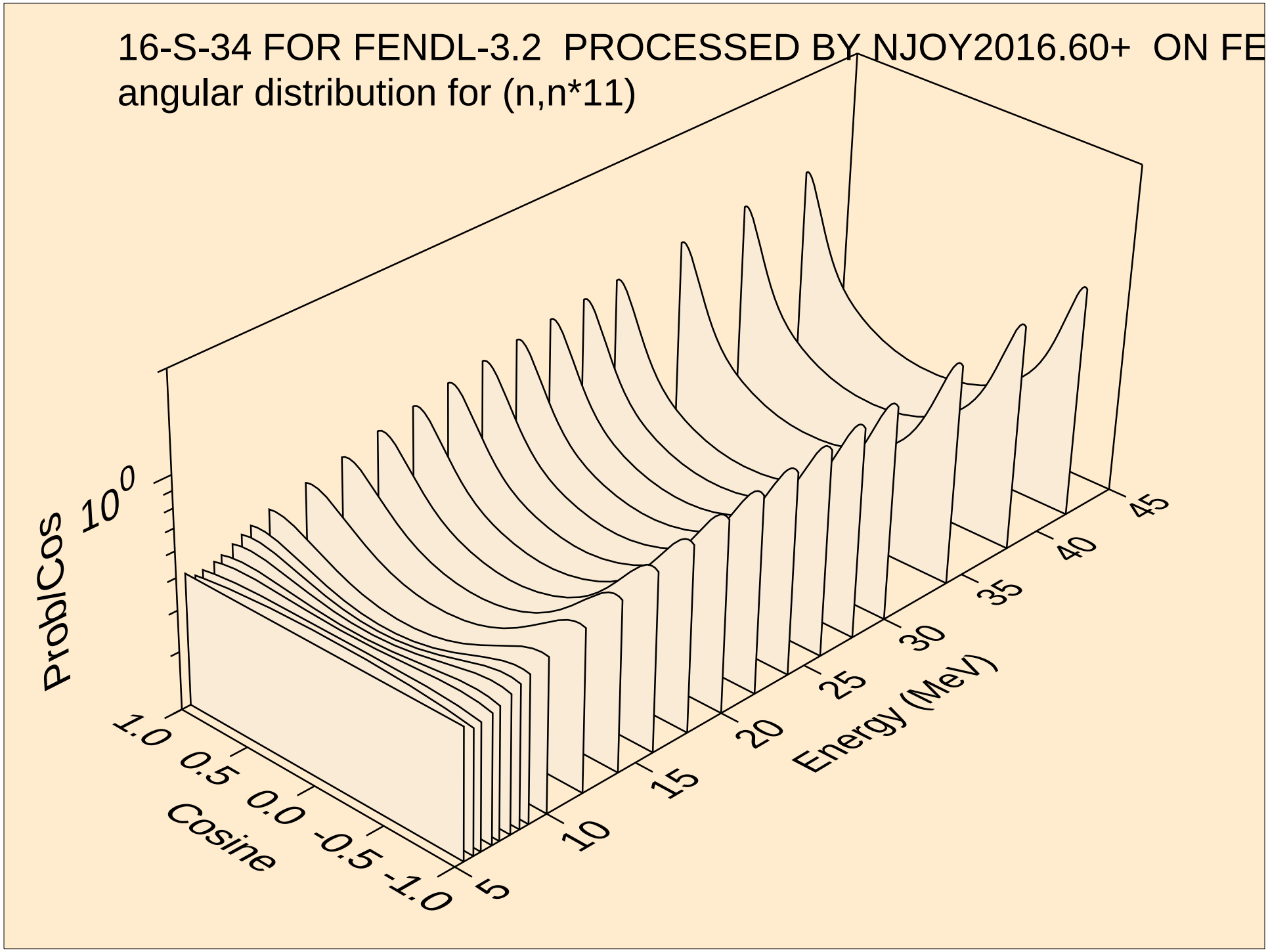

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*7)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

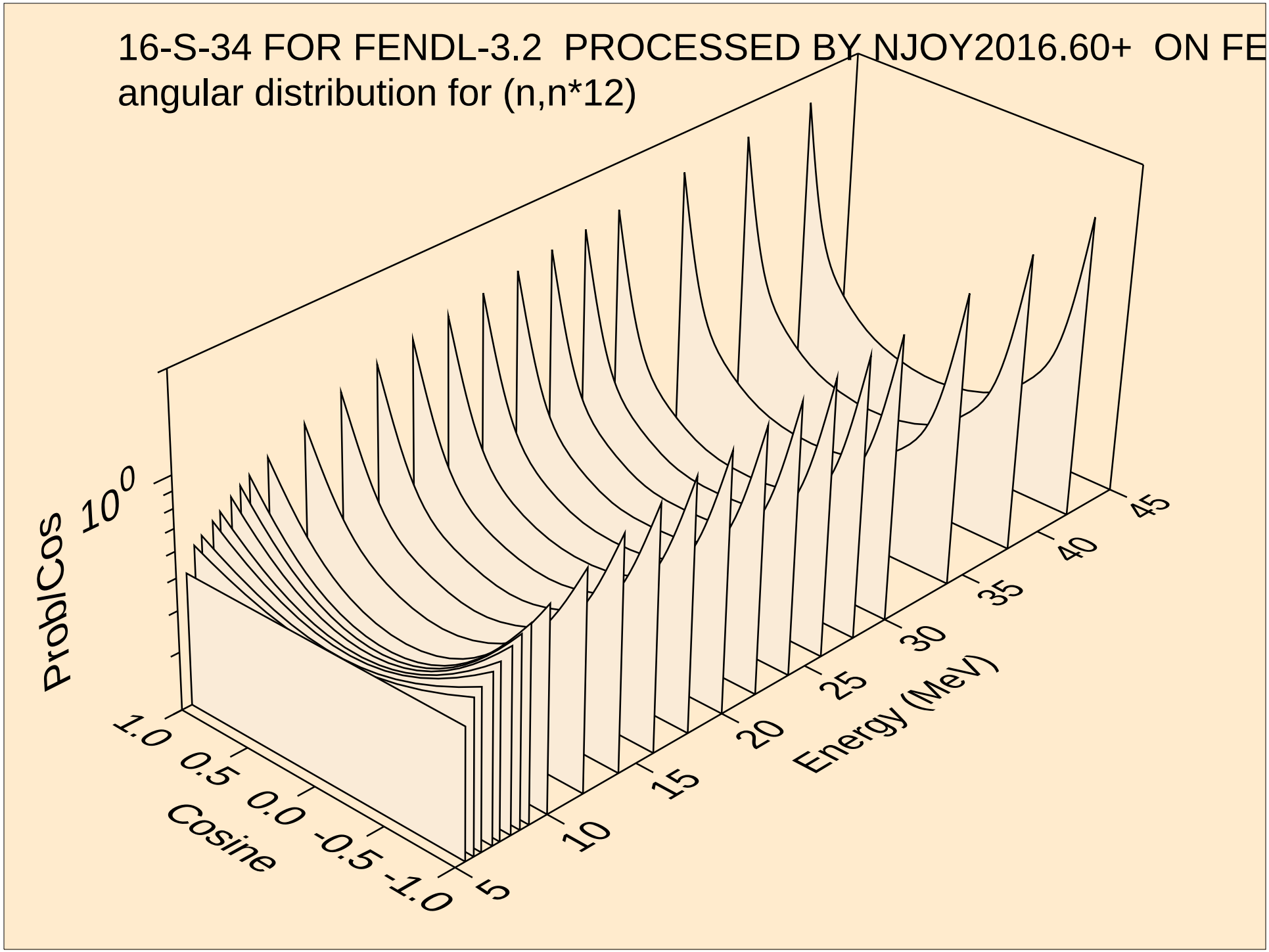

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*8)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

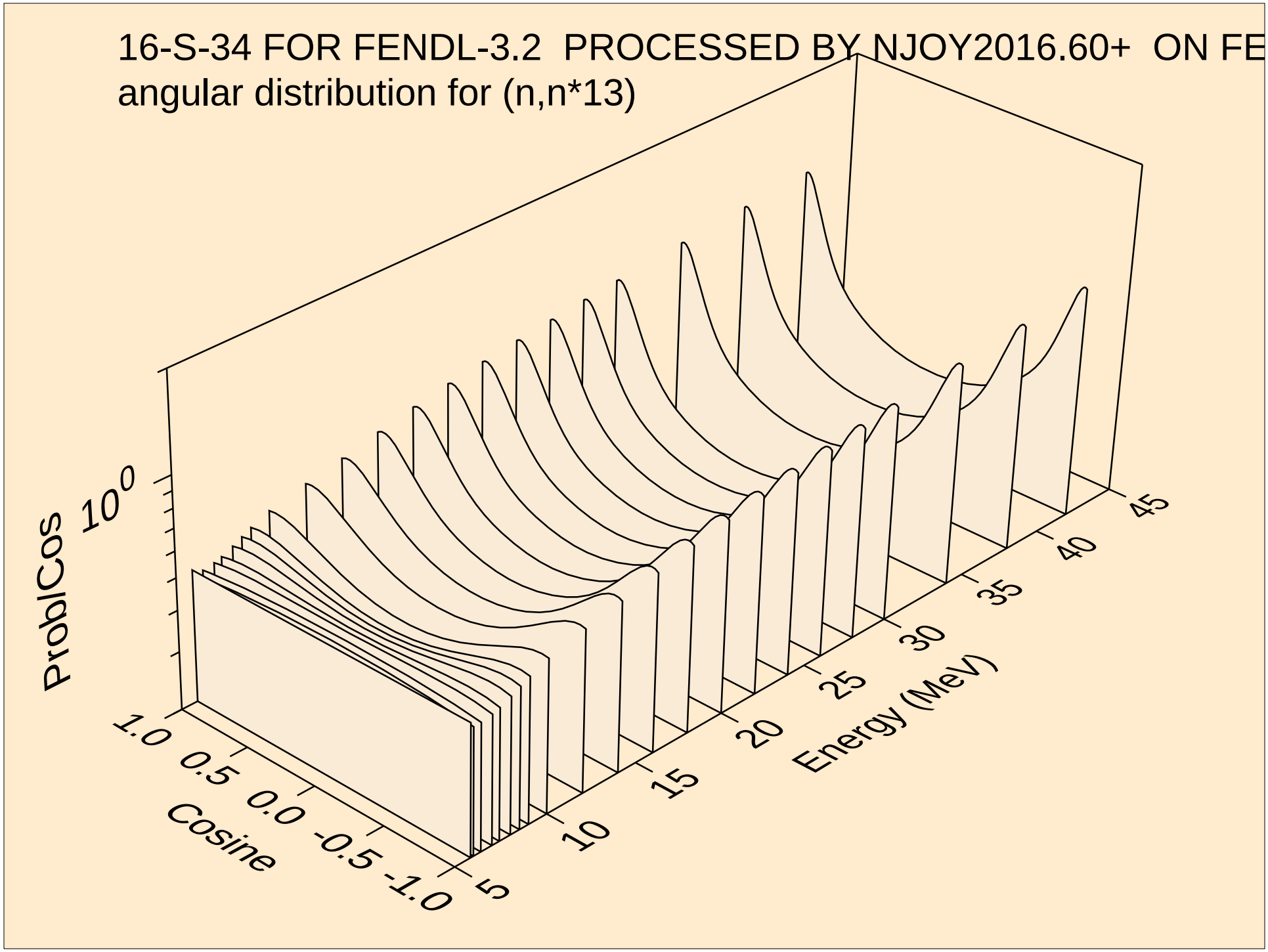

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*9)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

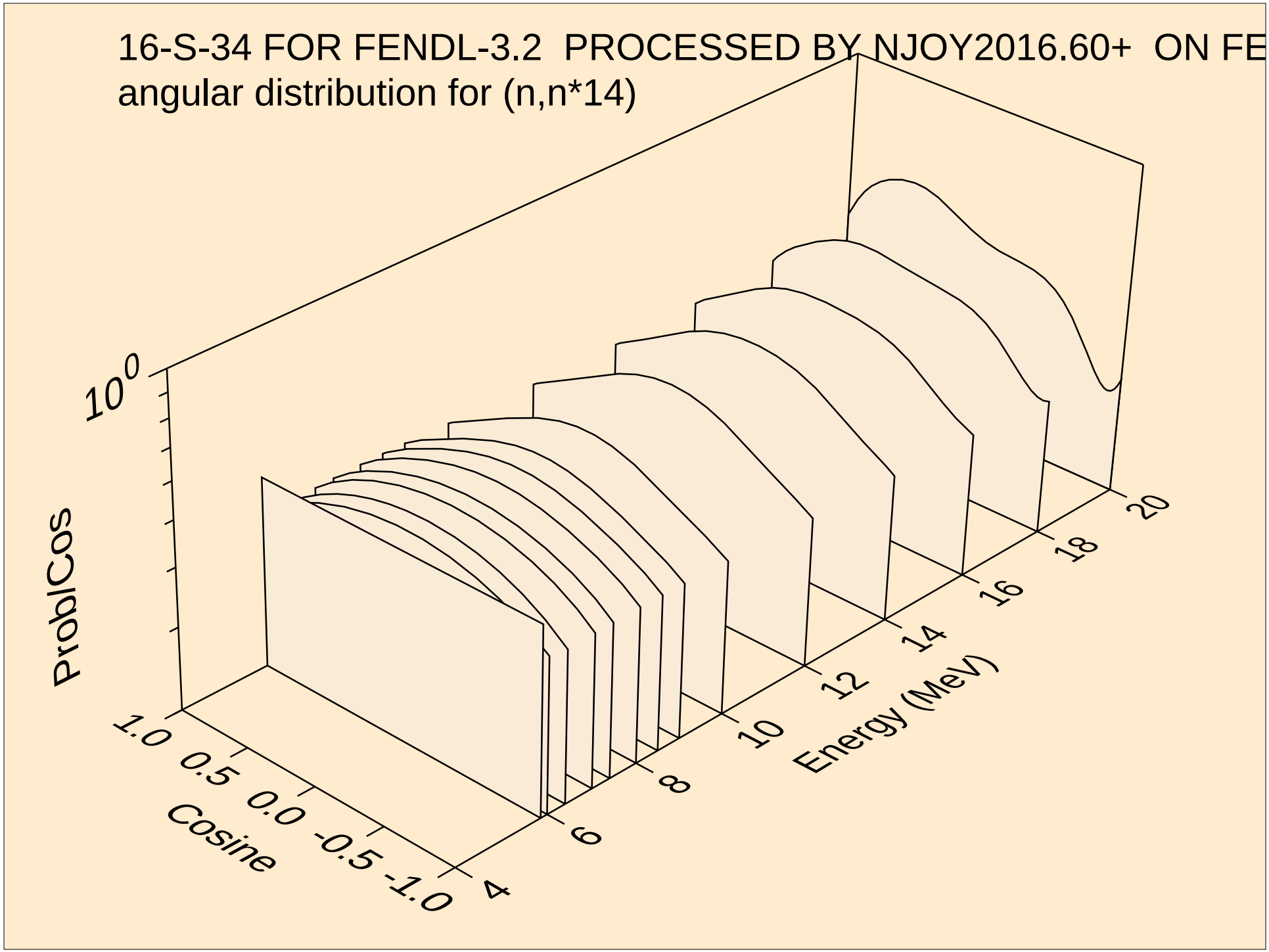

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*9)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

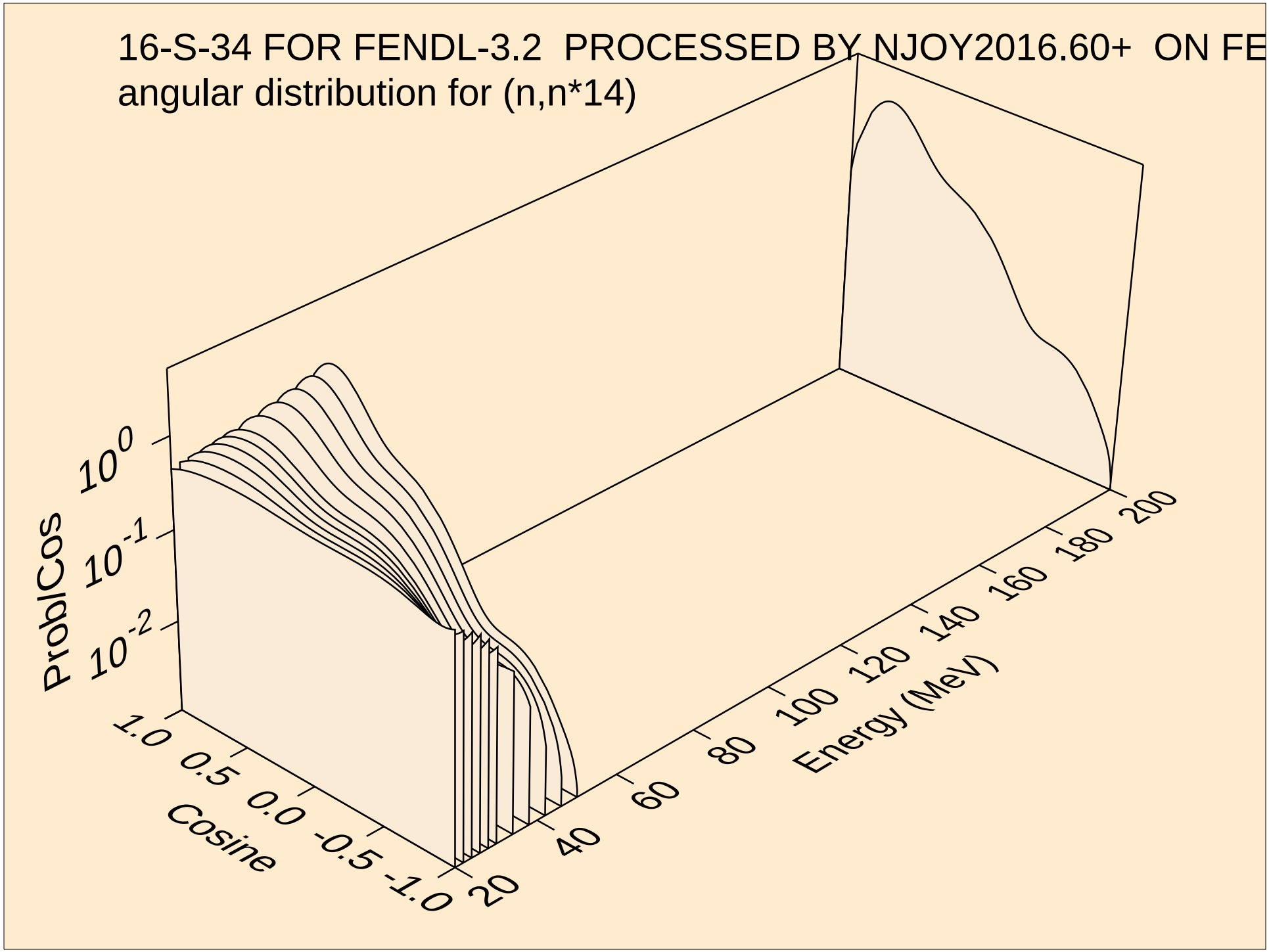

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*10)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

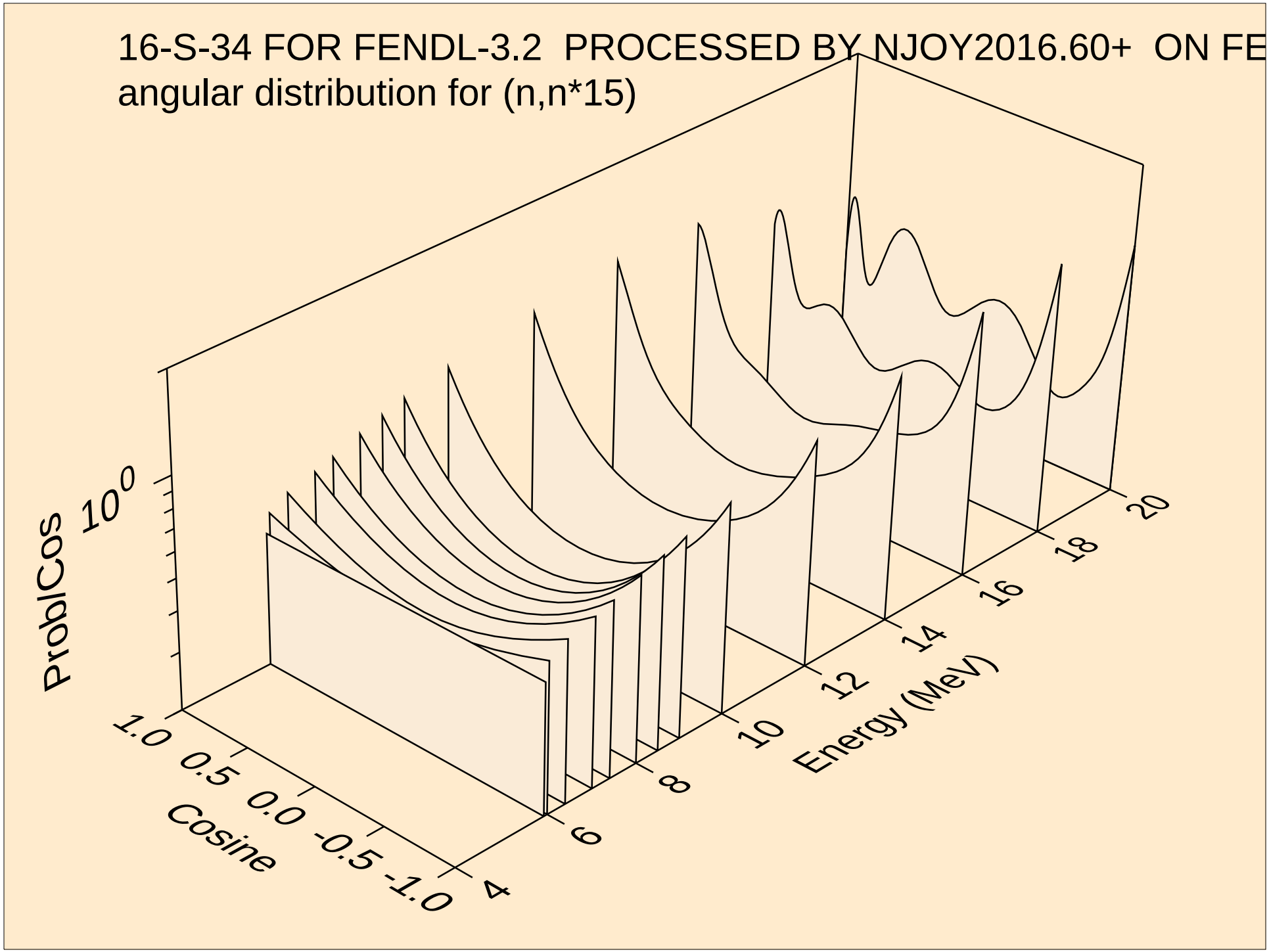

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*11)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

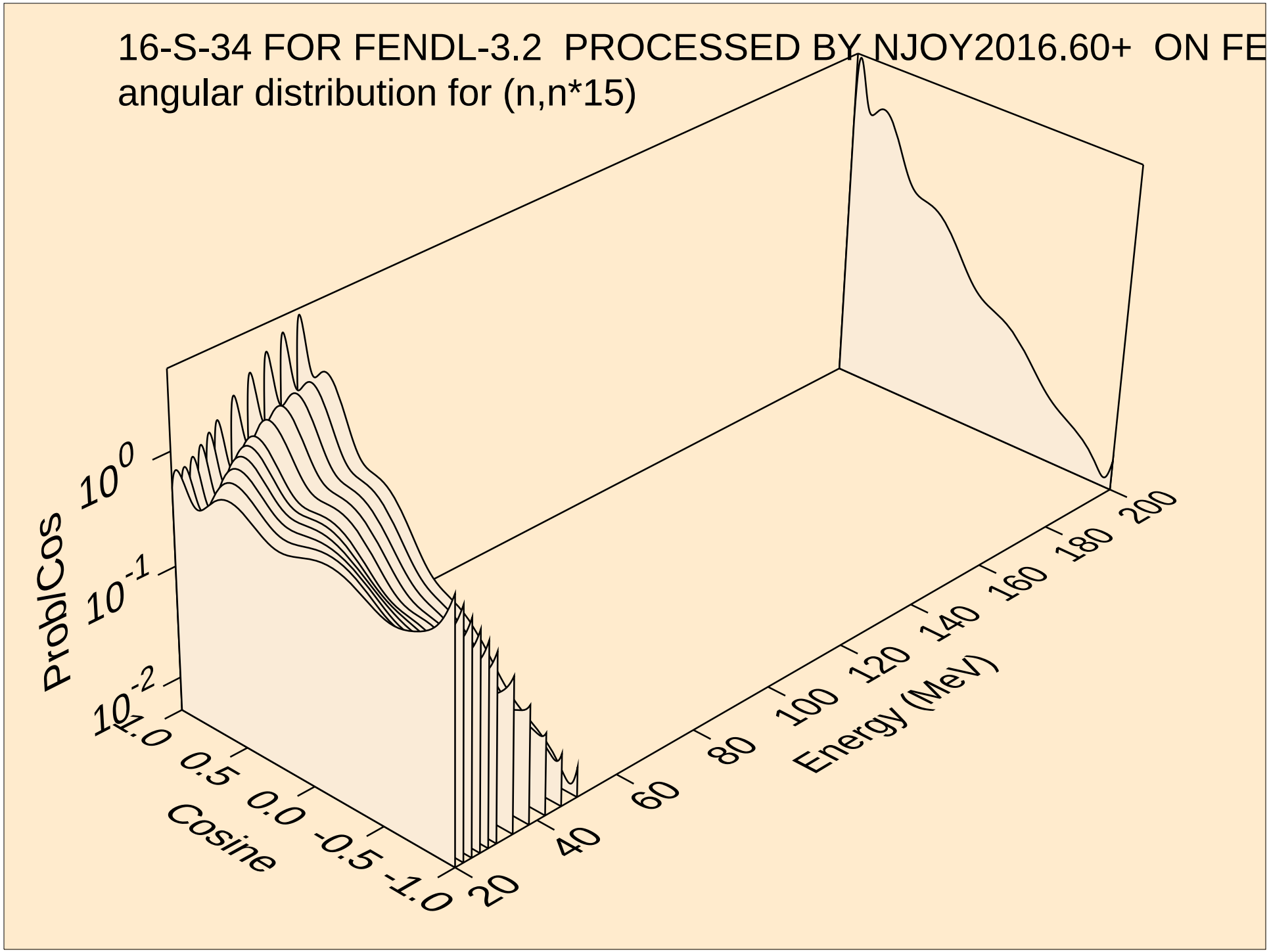

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*12)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

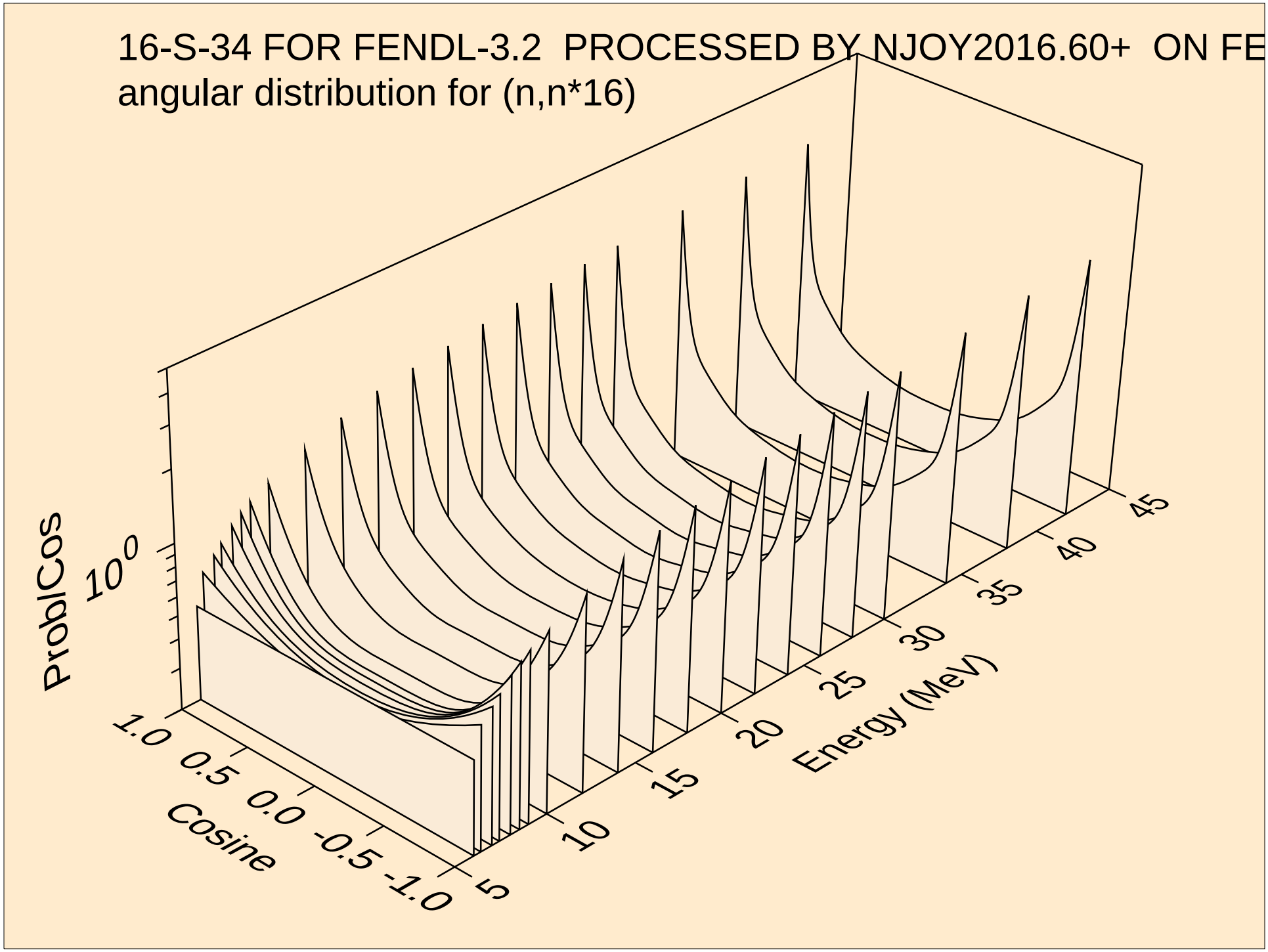

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*13)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

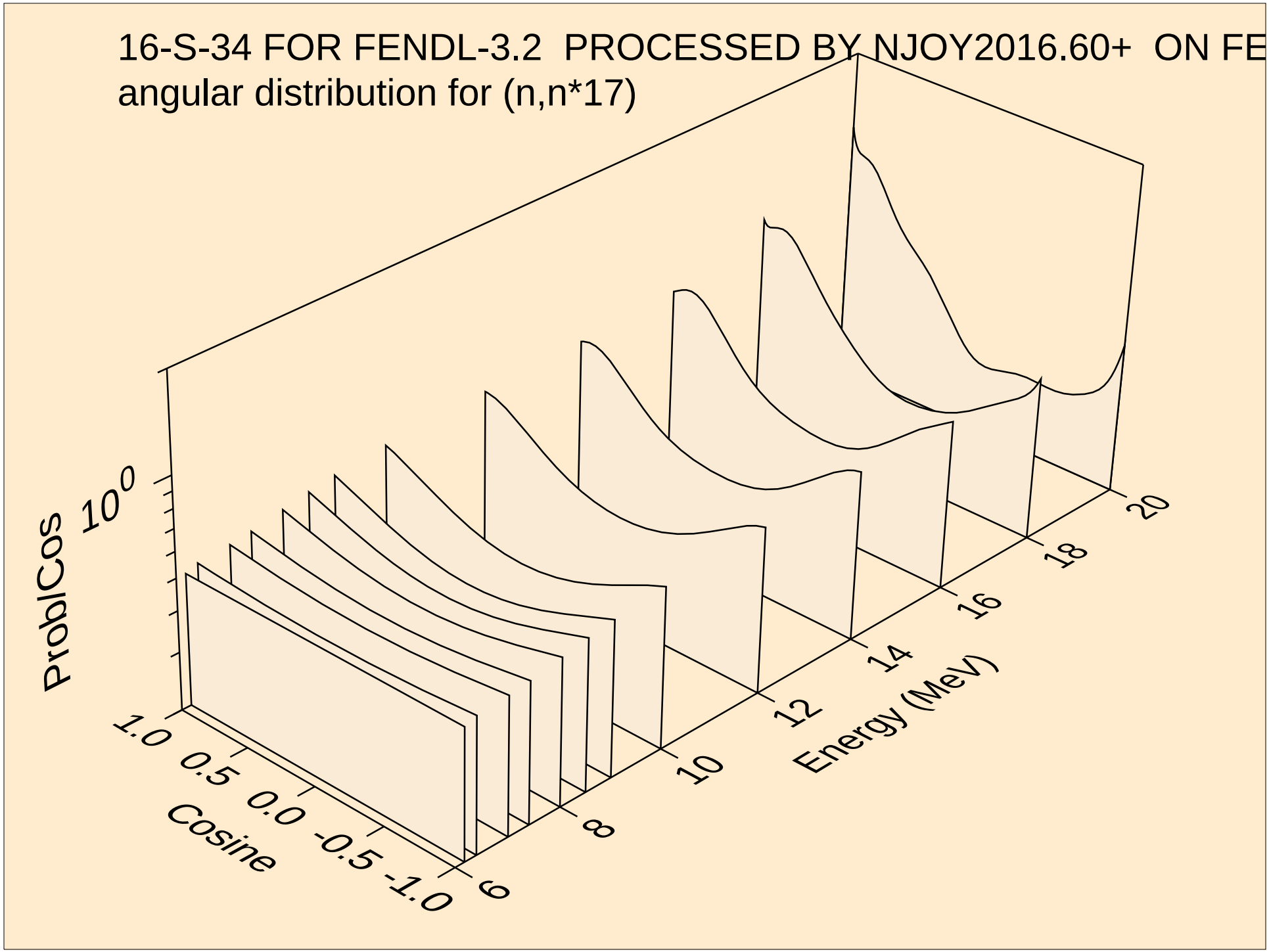

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*14)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

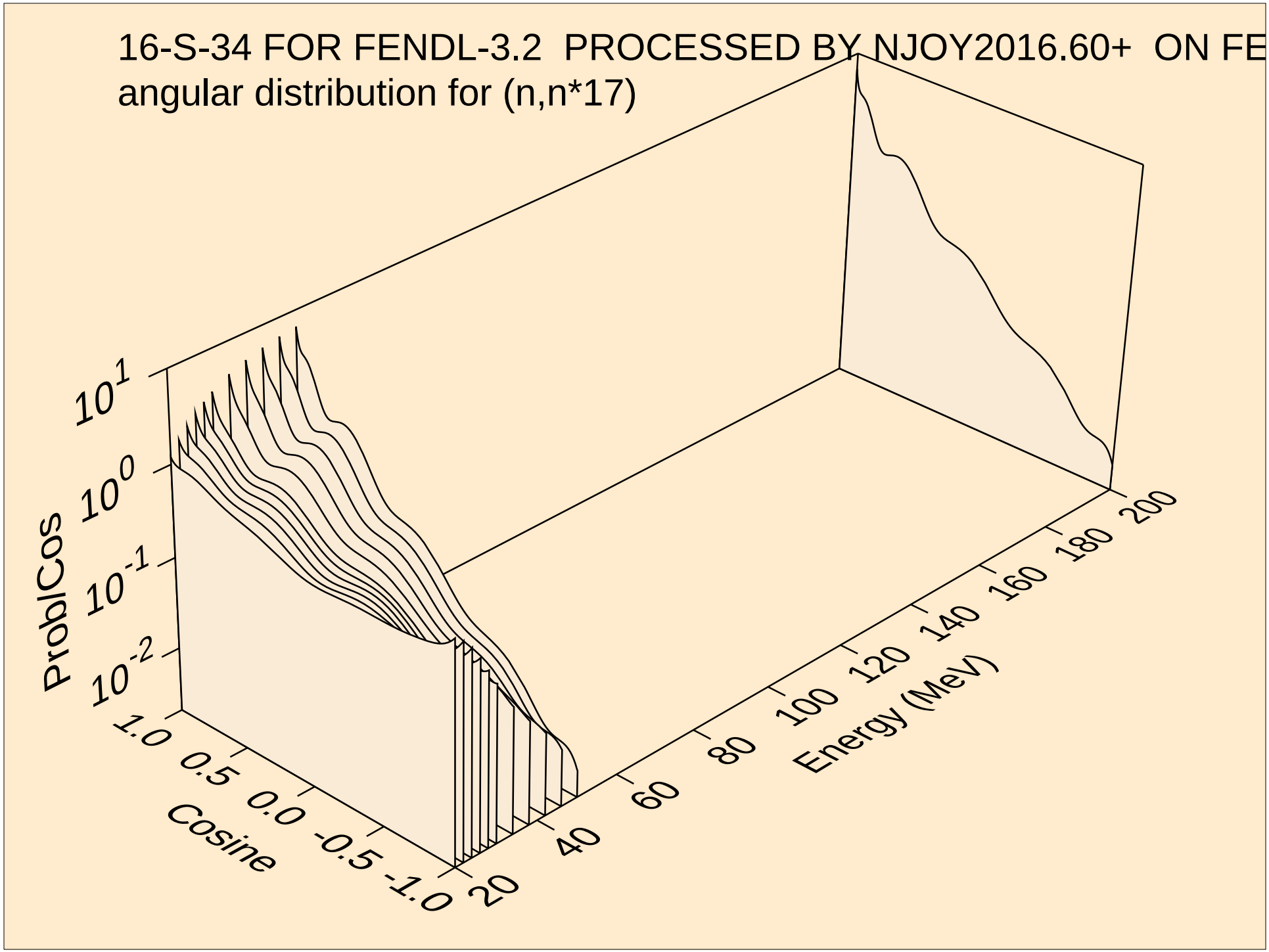

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*14)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

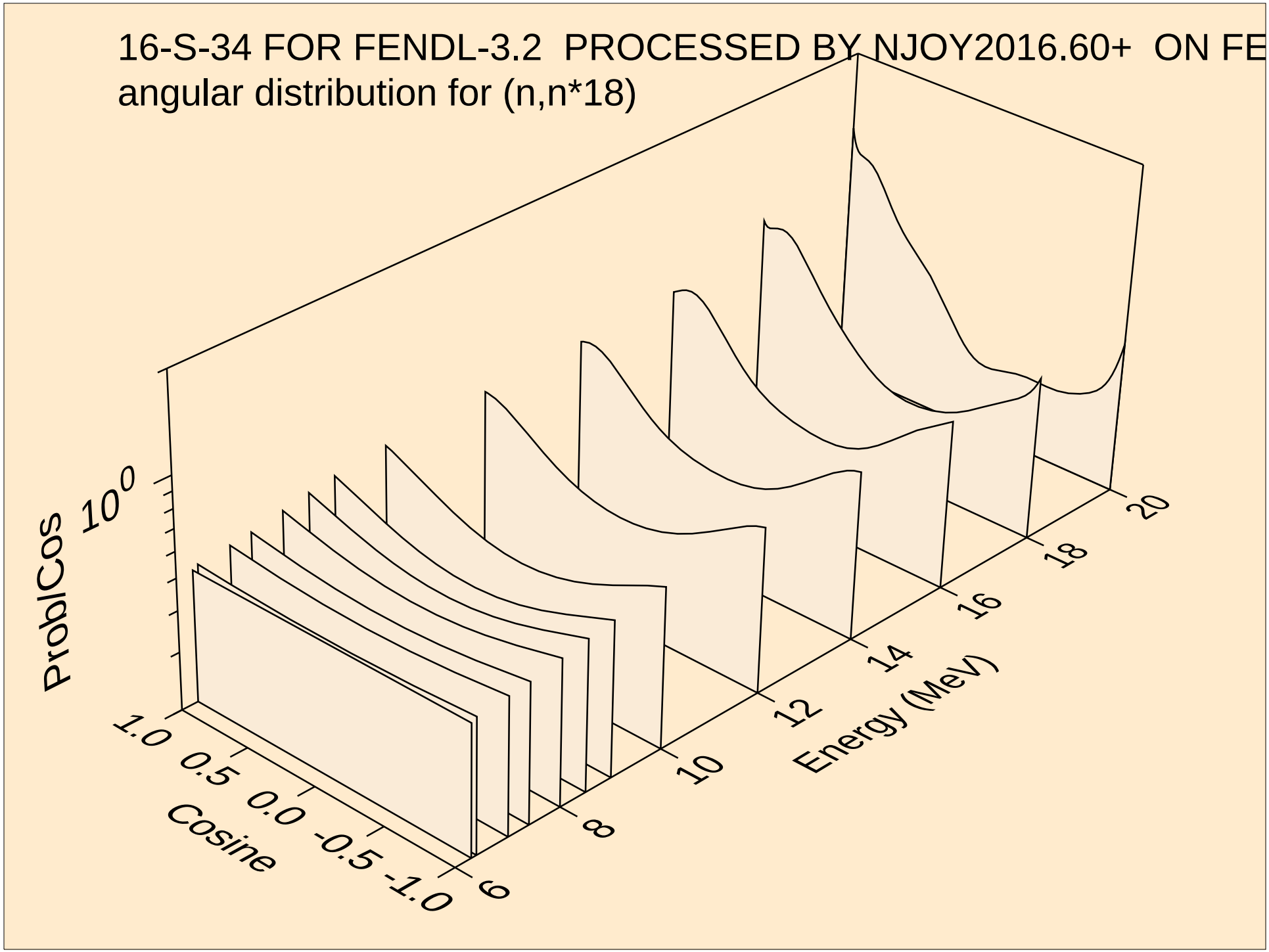

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*15)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
4
6
8
10
12
14
16
18
20
Energy (MeV)

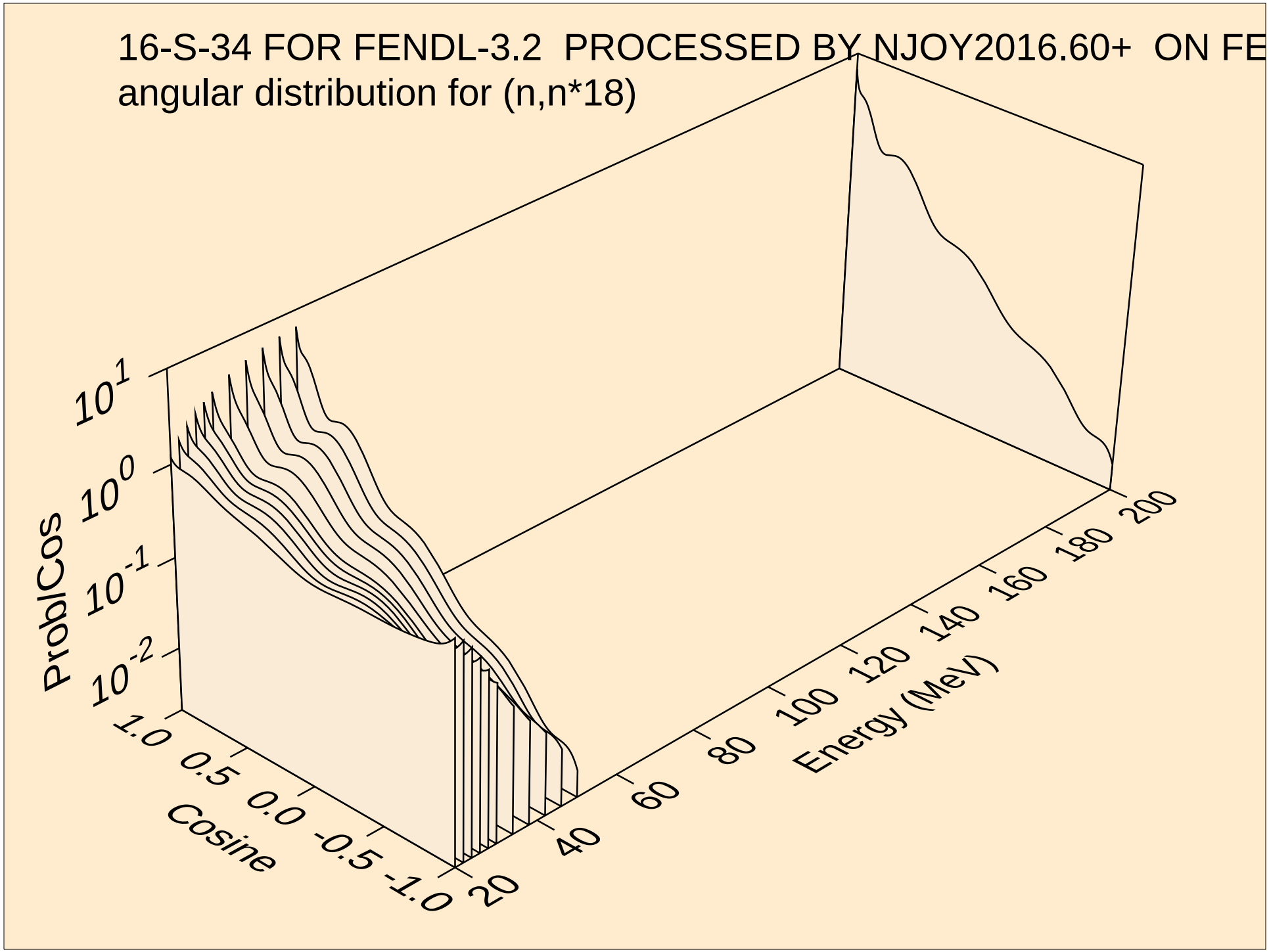

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*15)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

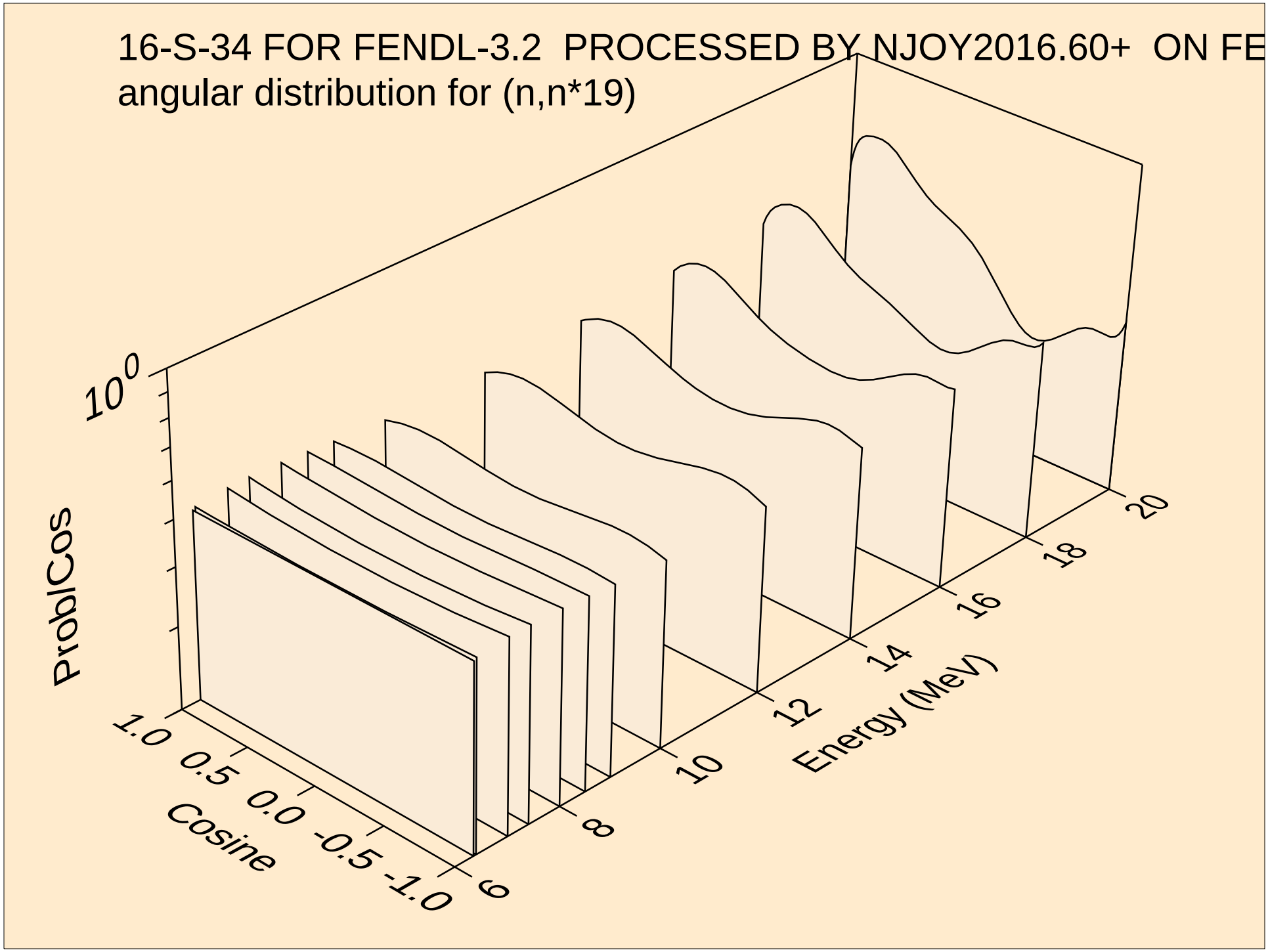

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*16)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

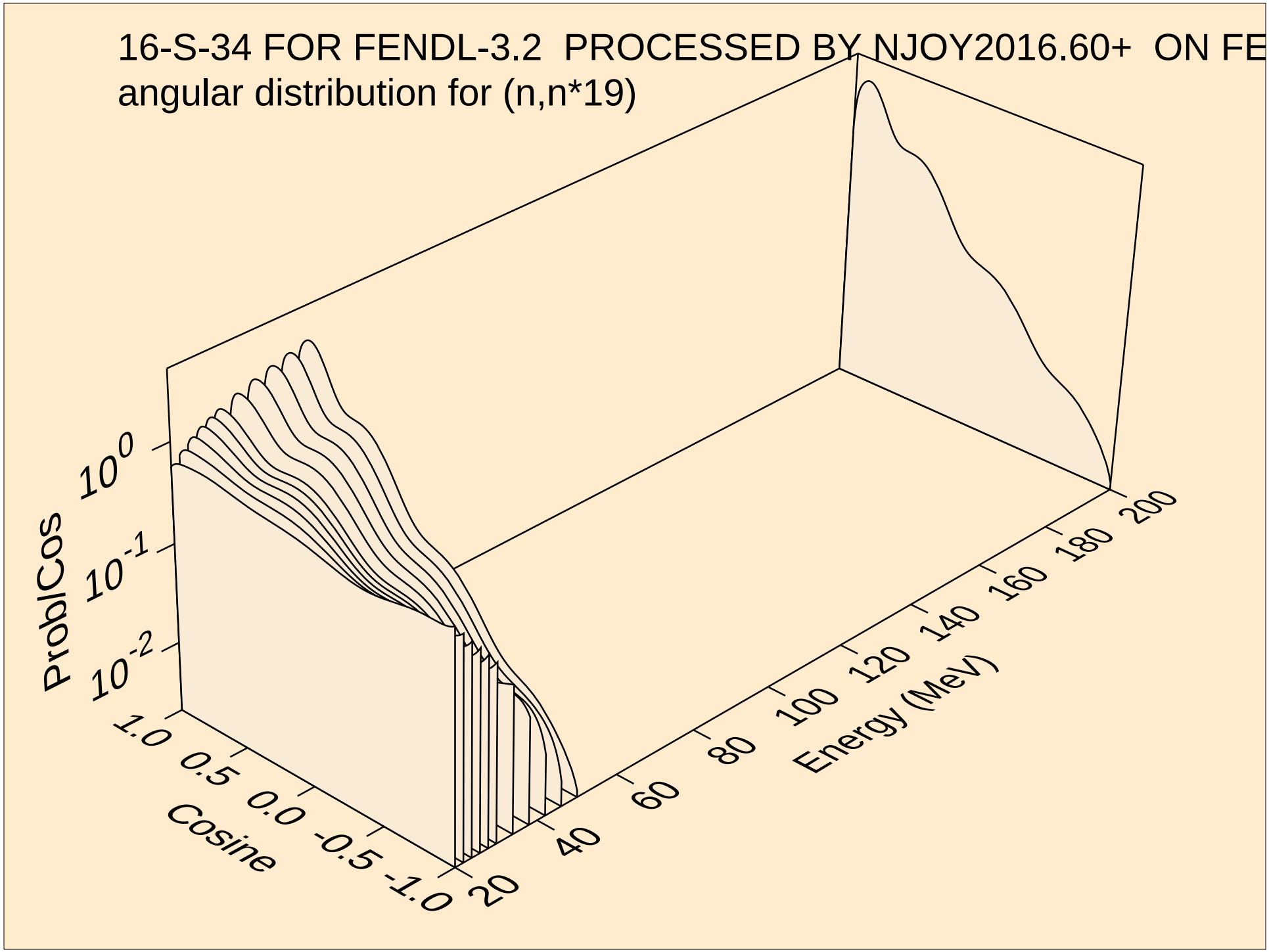

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*17)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

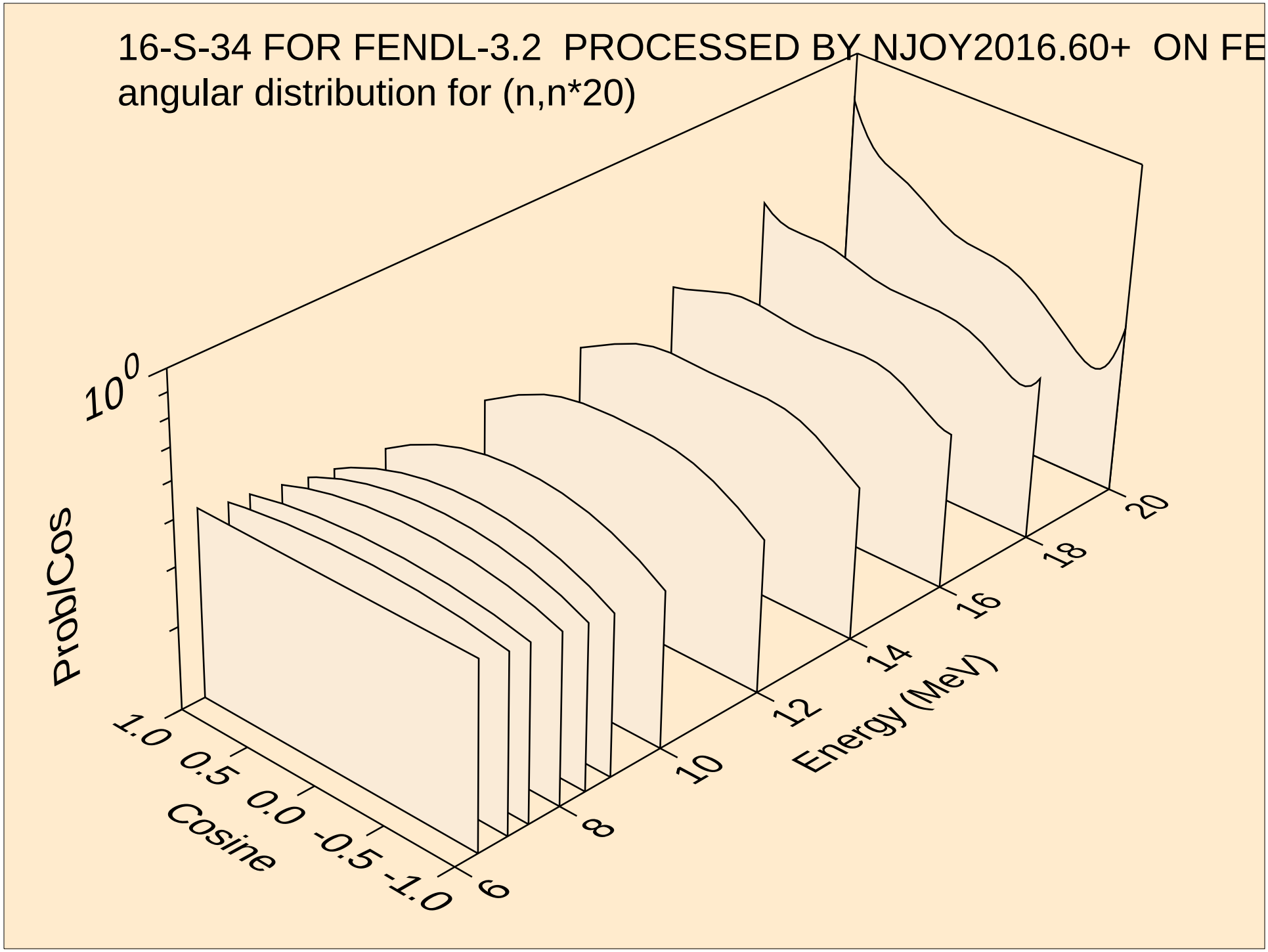

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*17)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

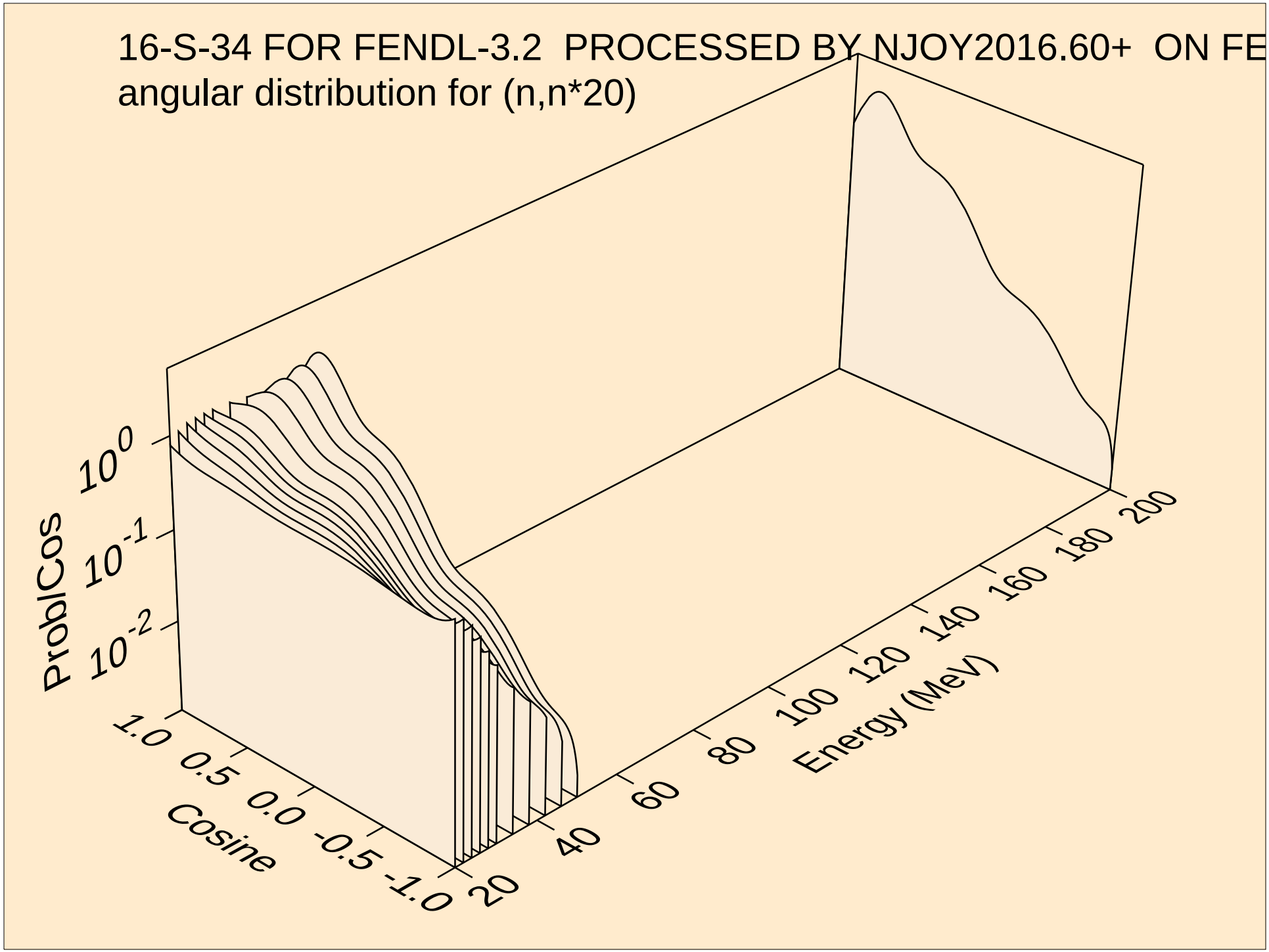

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*18)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

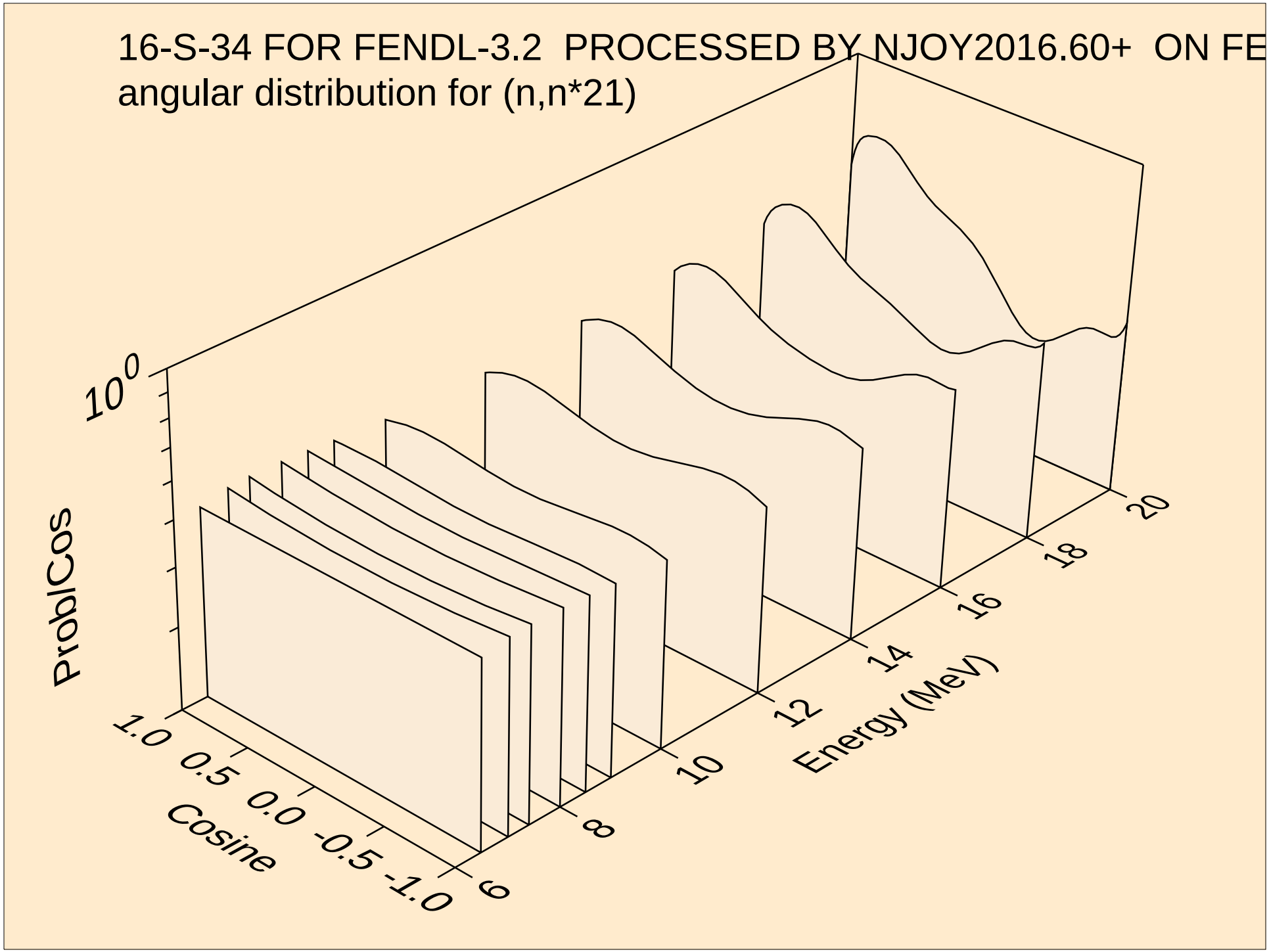

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*18)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

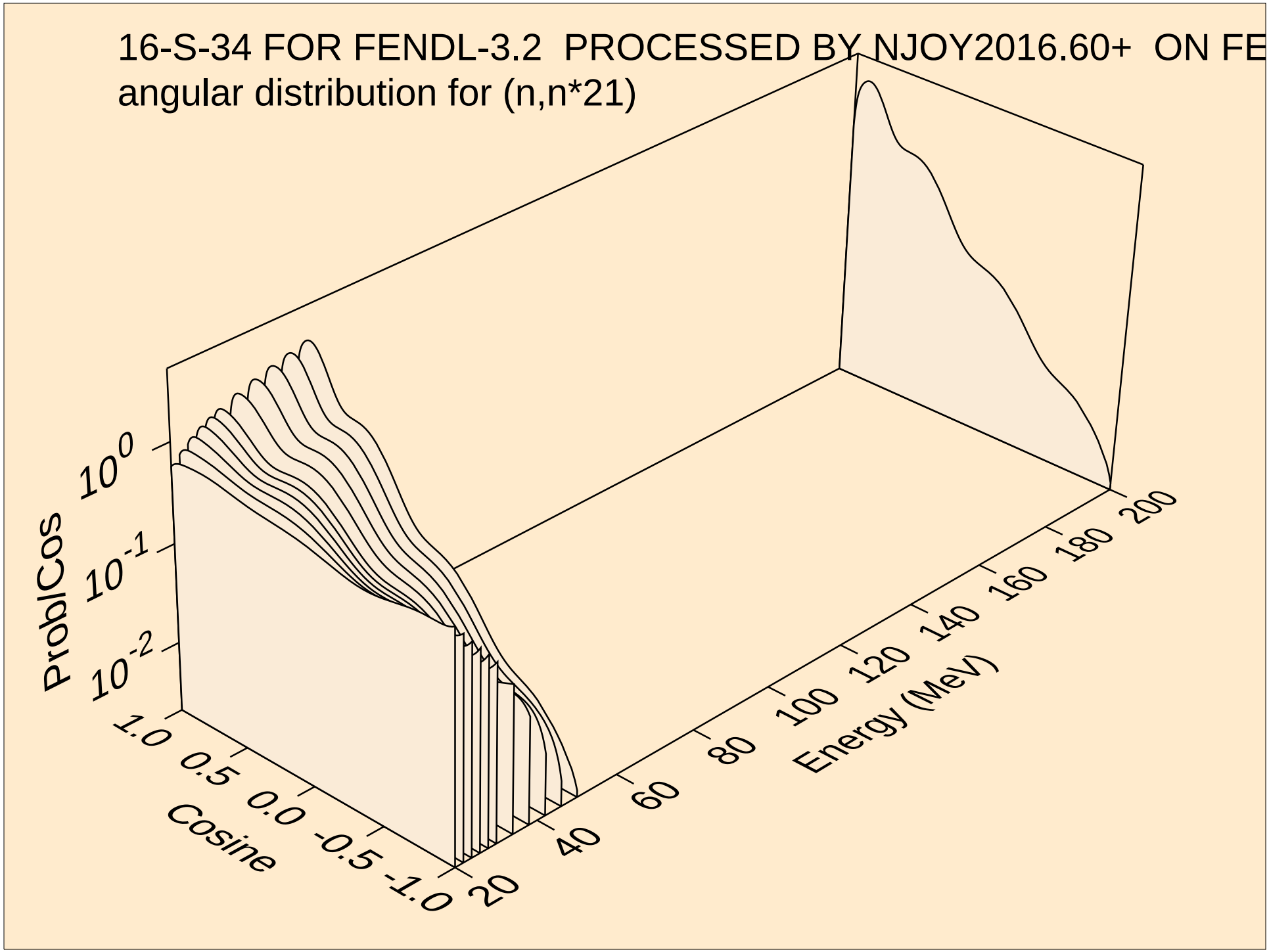

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*19)
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

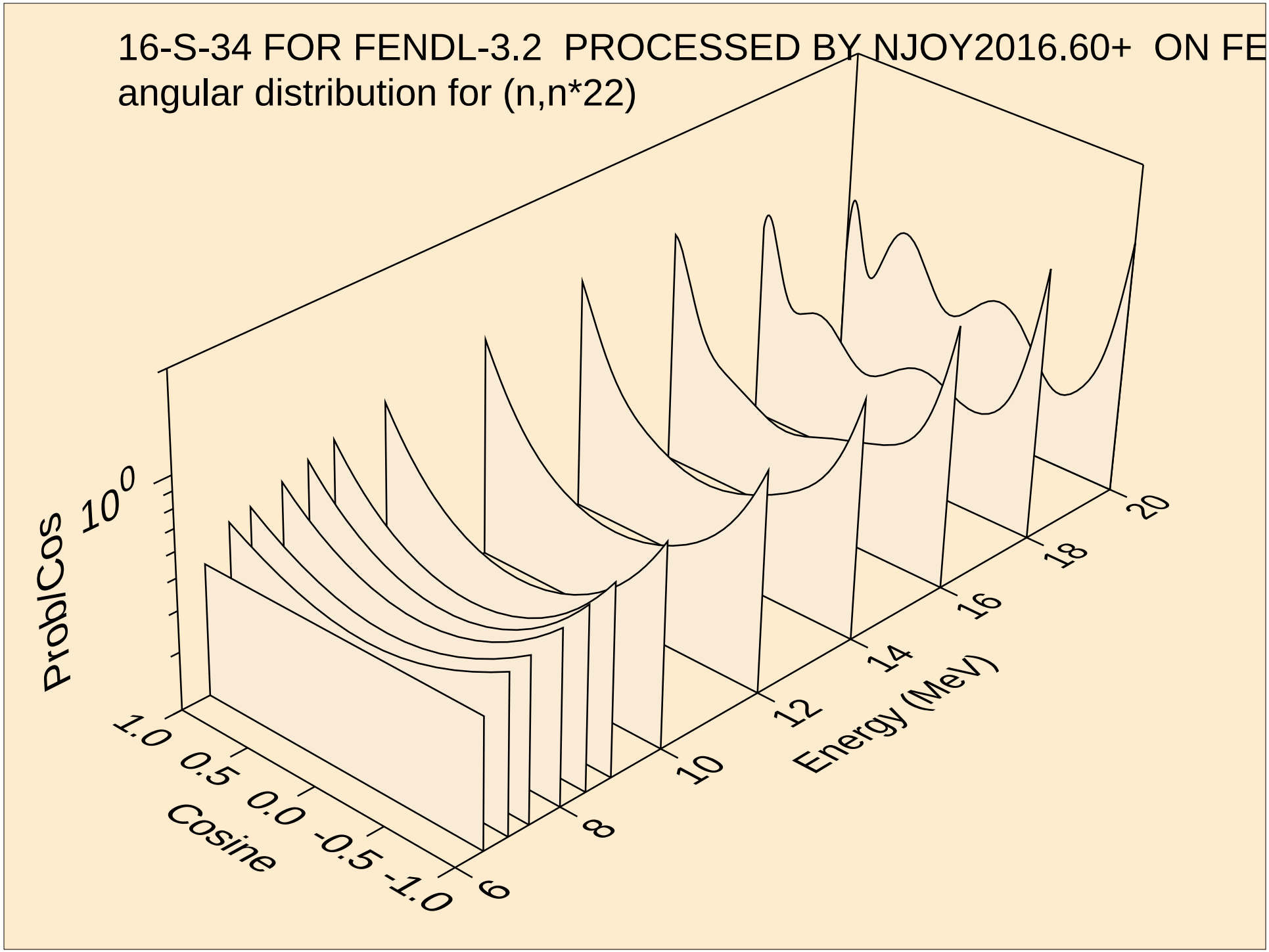

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*19)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

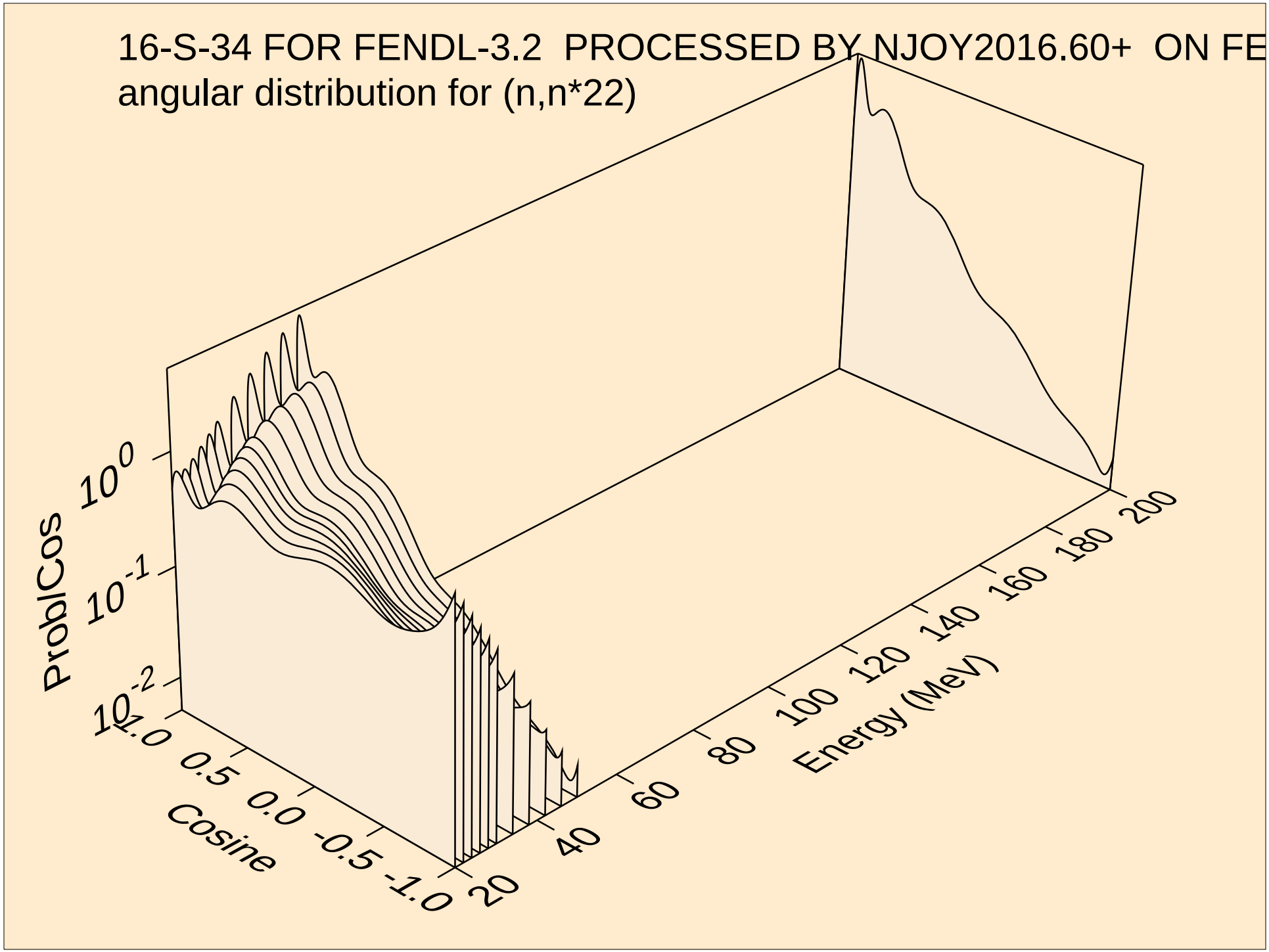

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*20)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

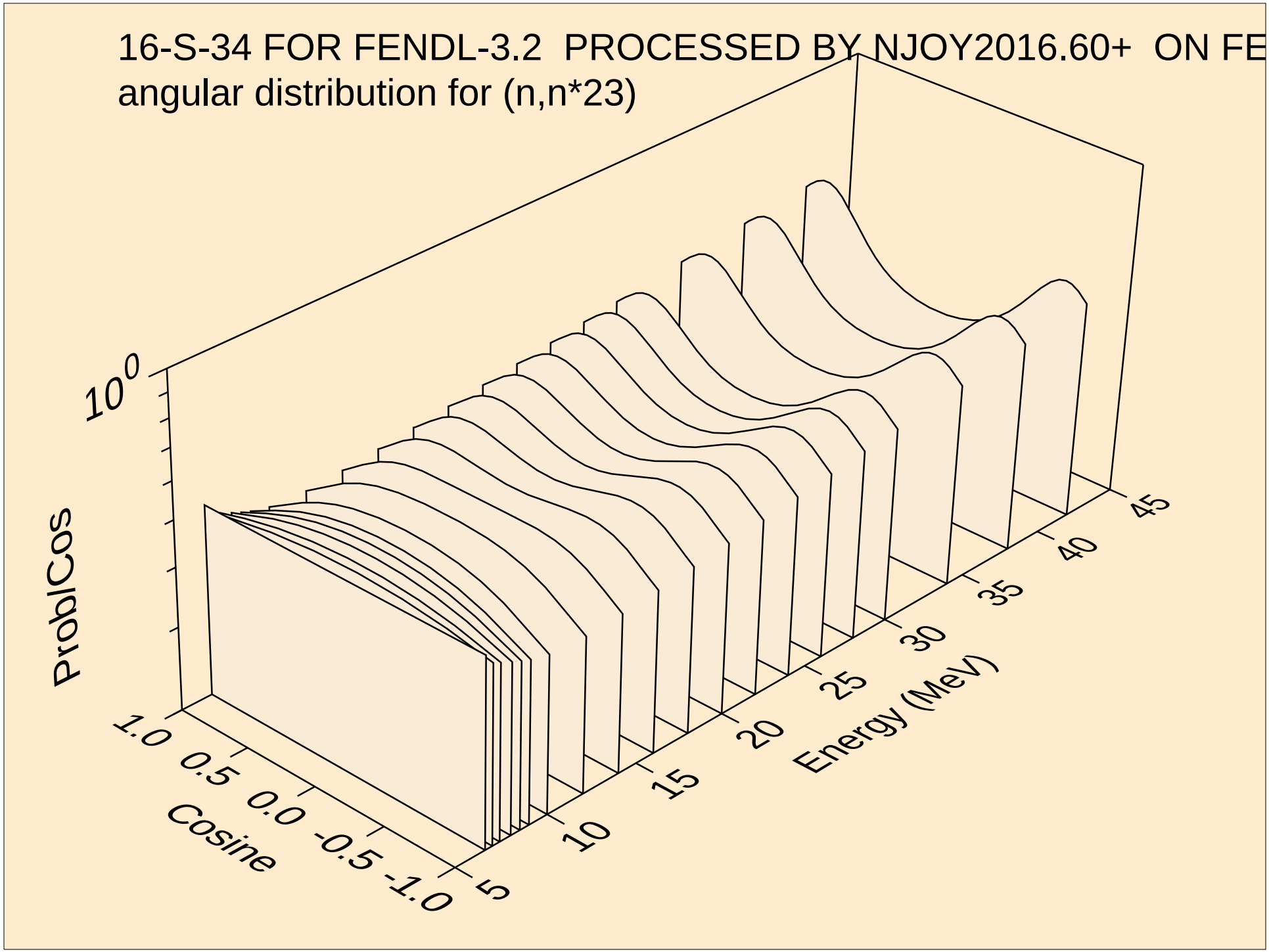

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*20)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

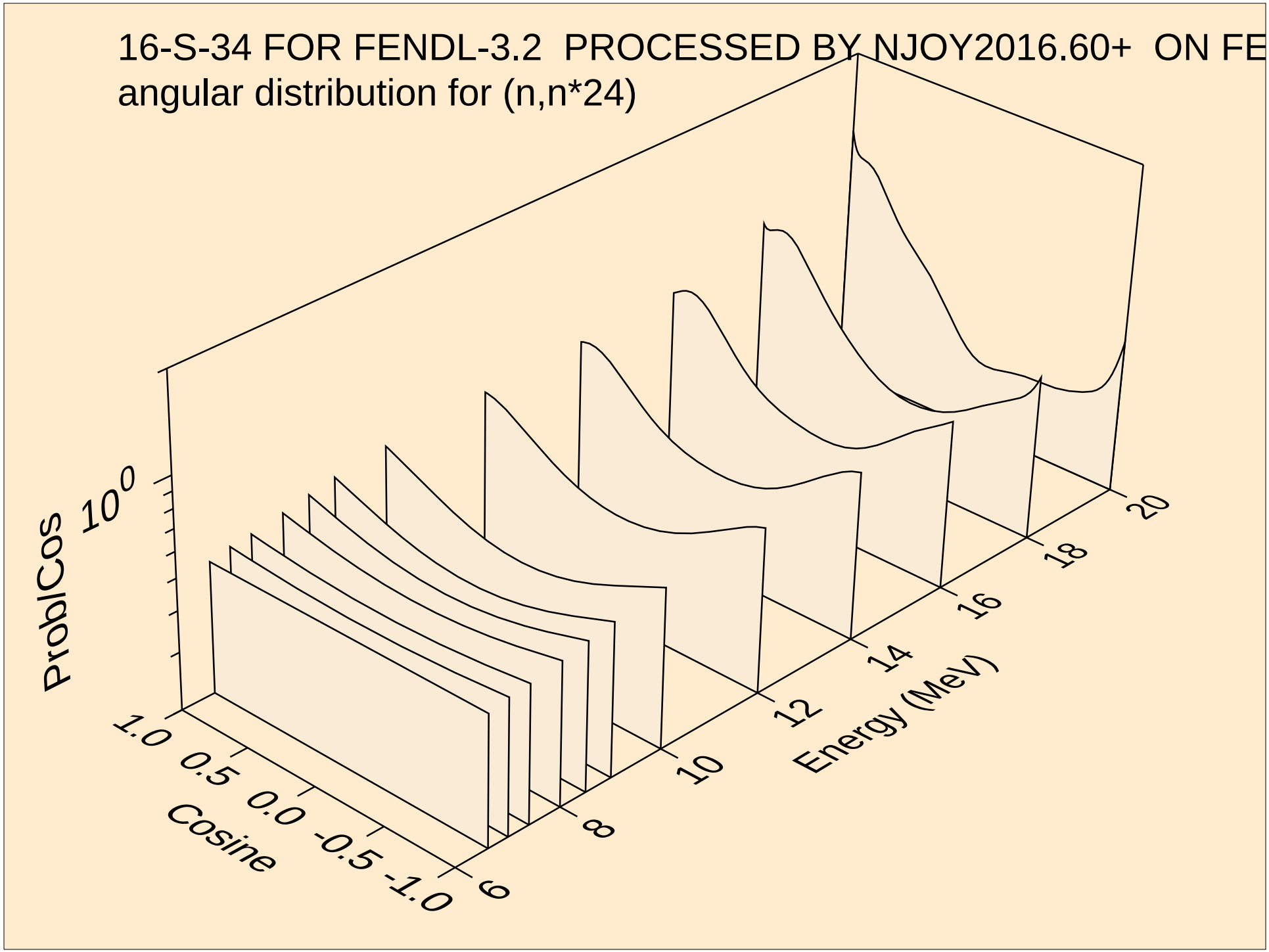

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*21)
10^0
Prob\Cos
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

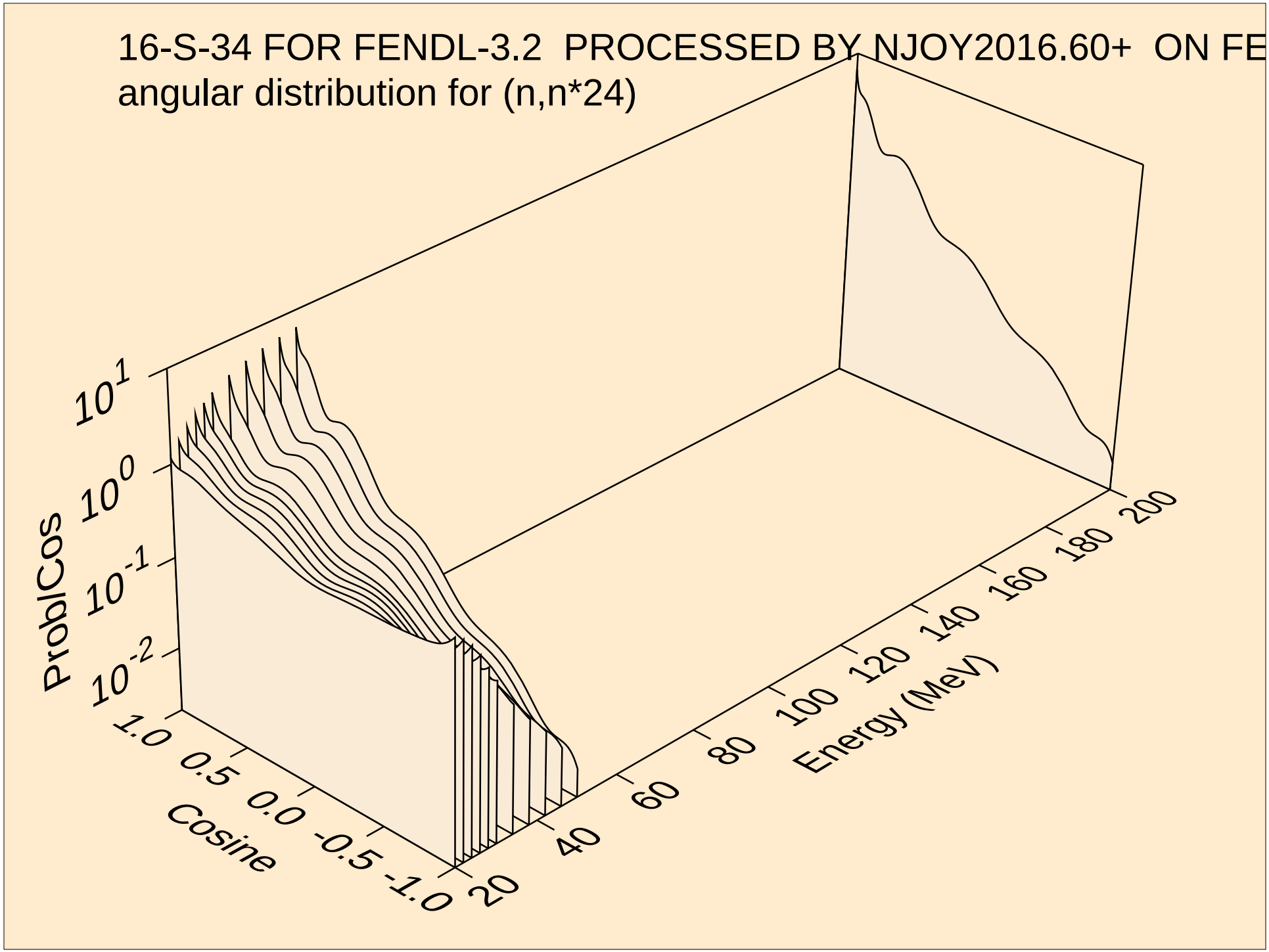

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*21)
ProbCos
10^0
10^-1
10^-2
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

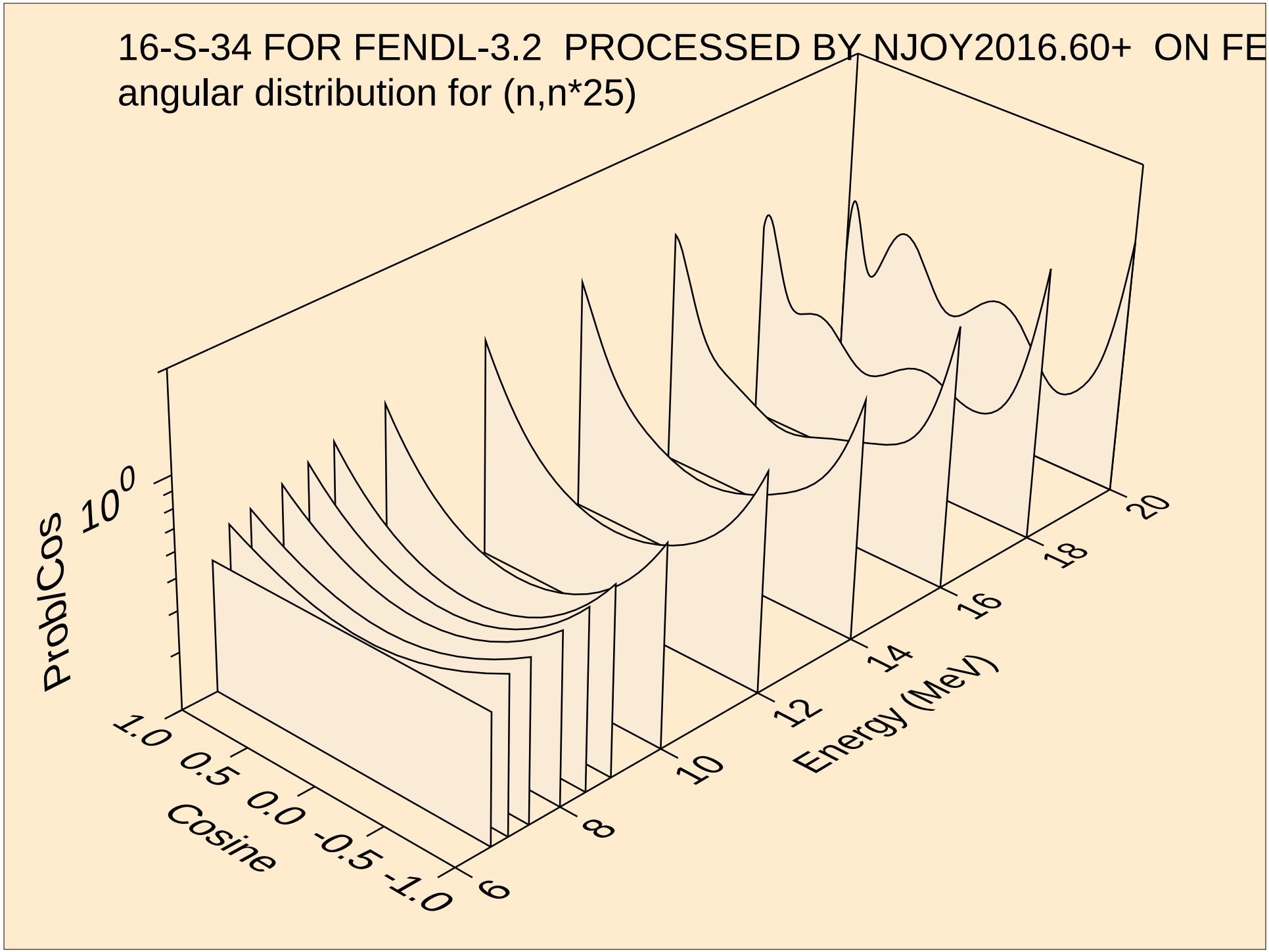

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*22)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

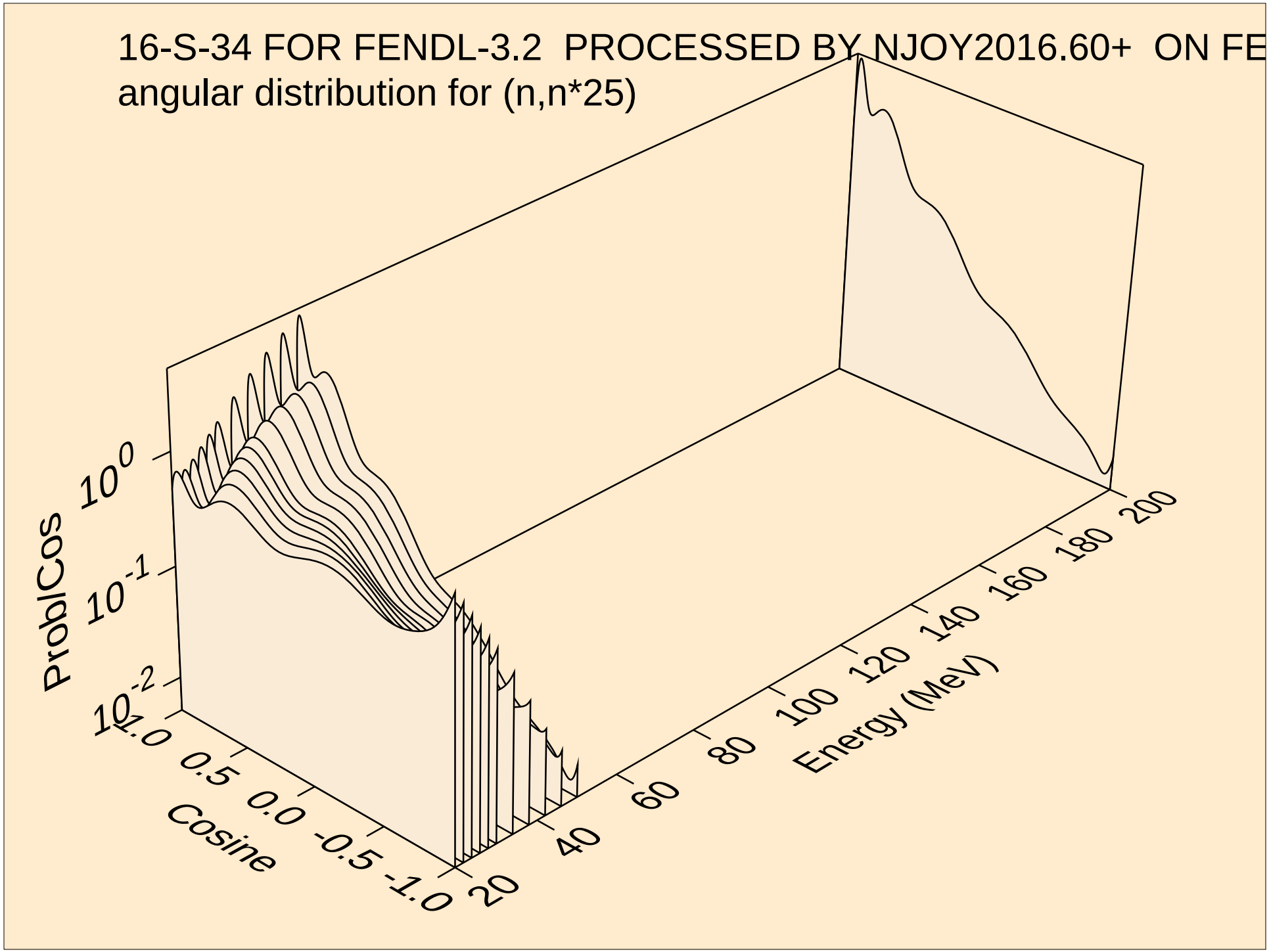

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*22)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

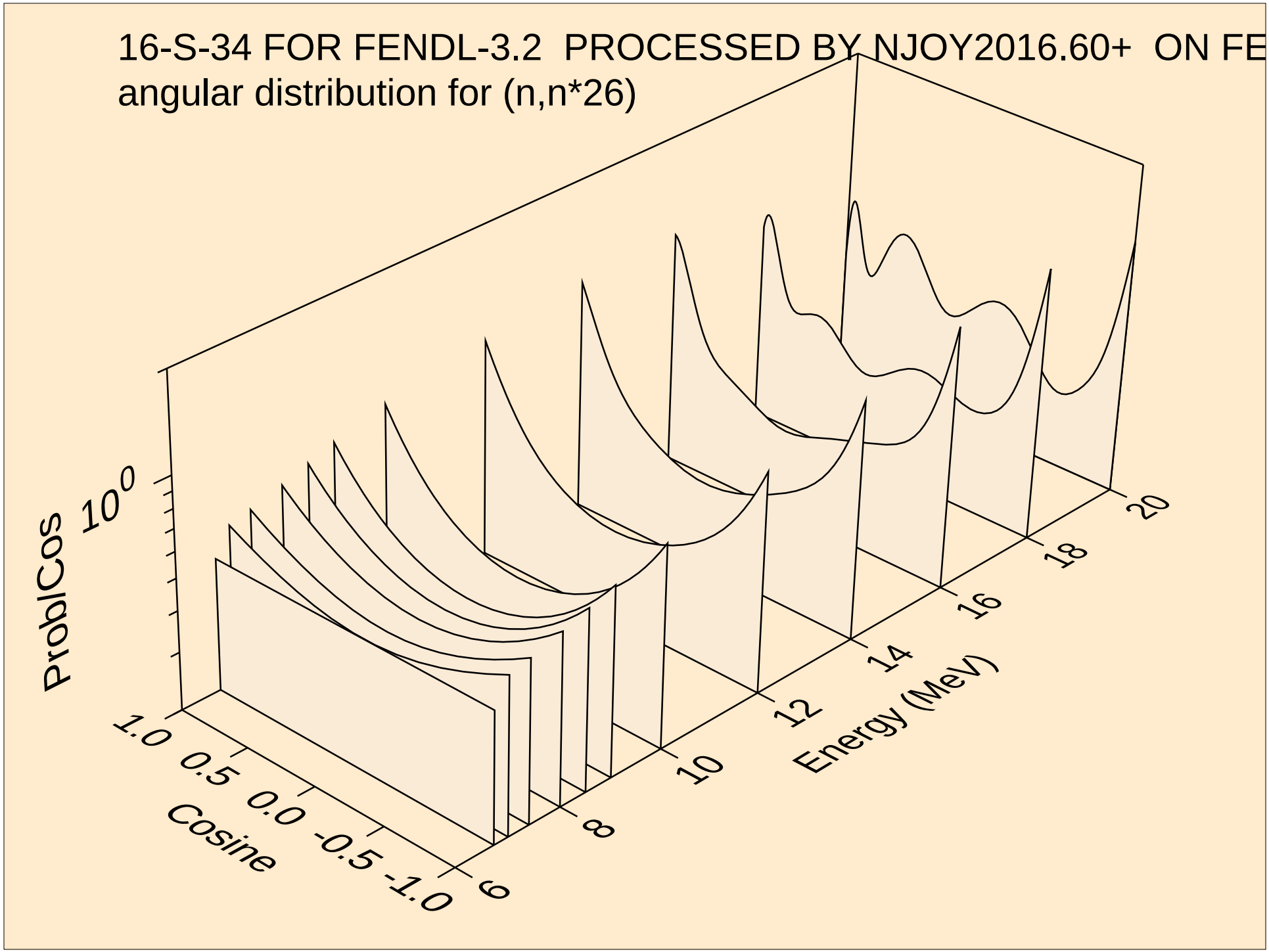

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*23)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

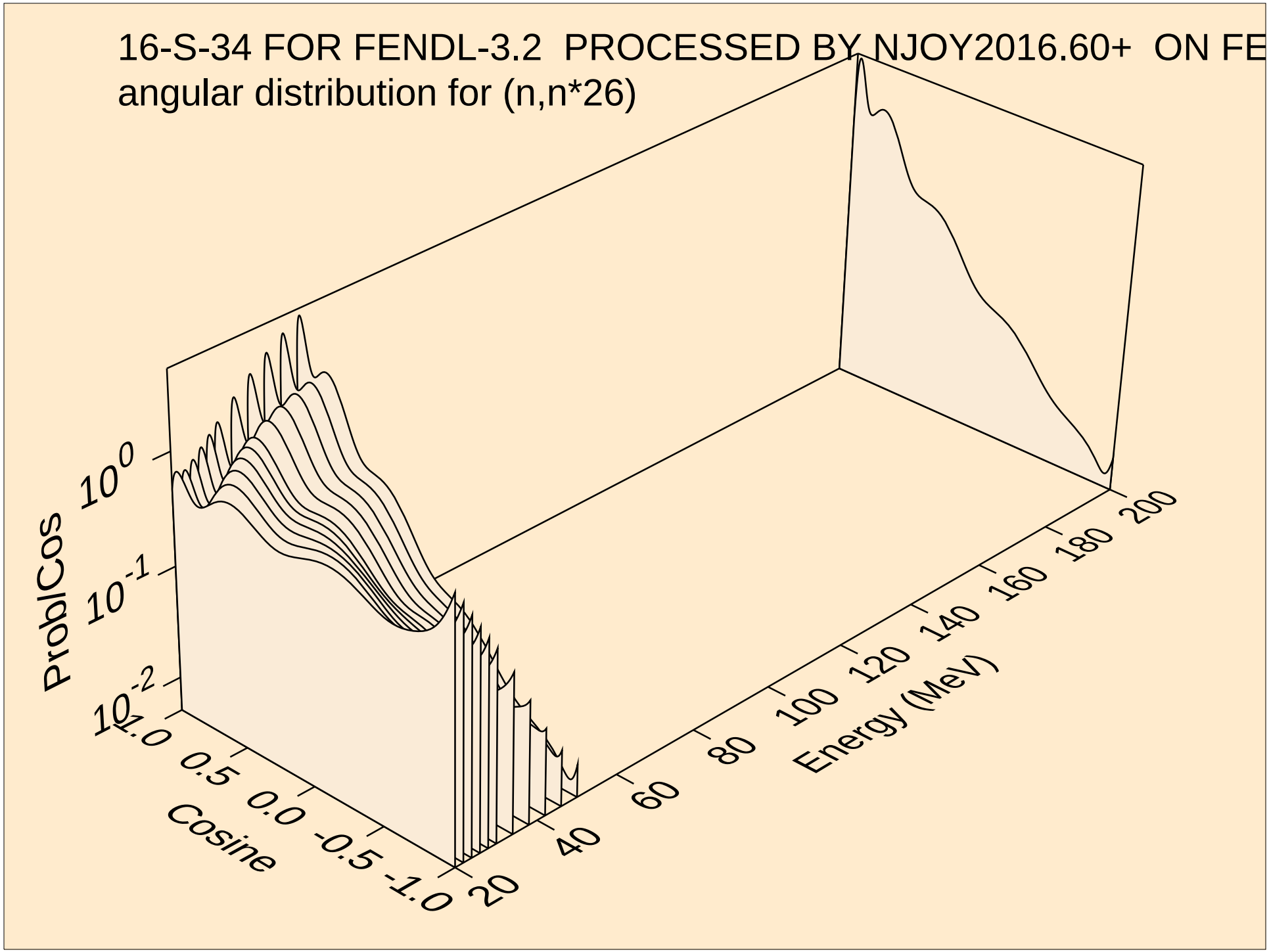

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*24)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

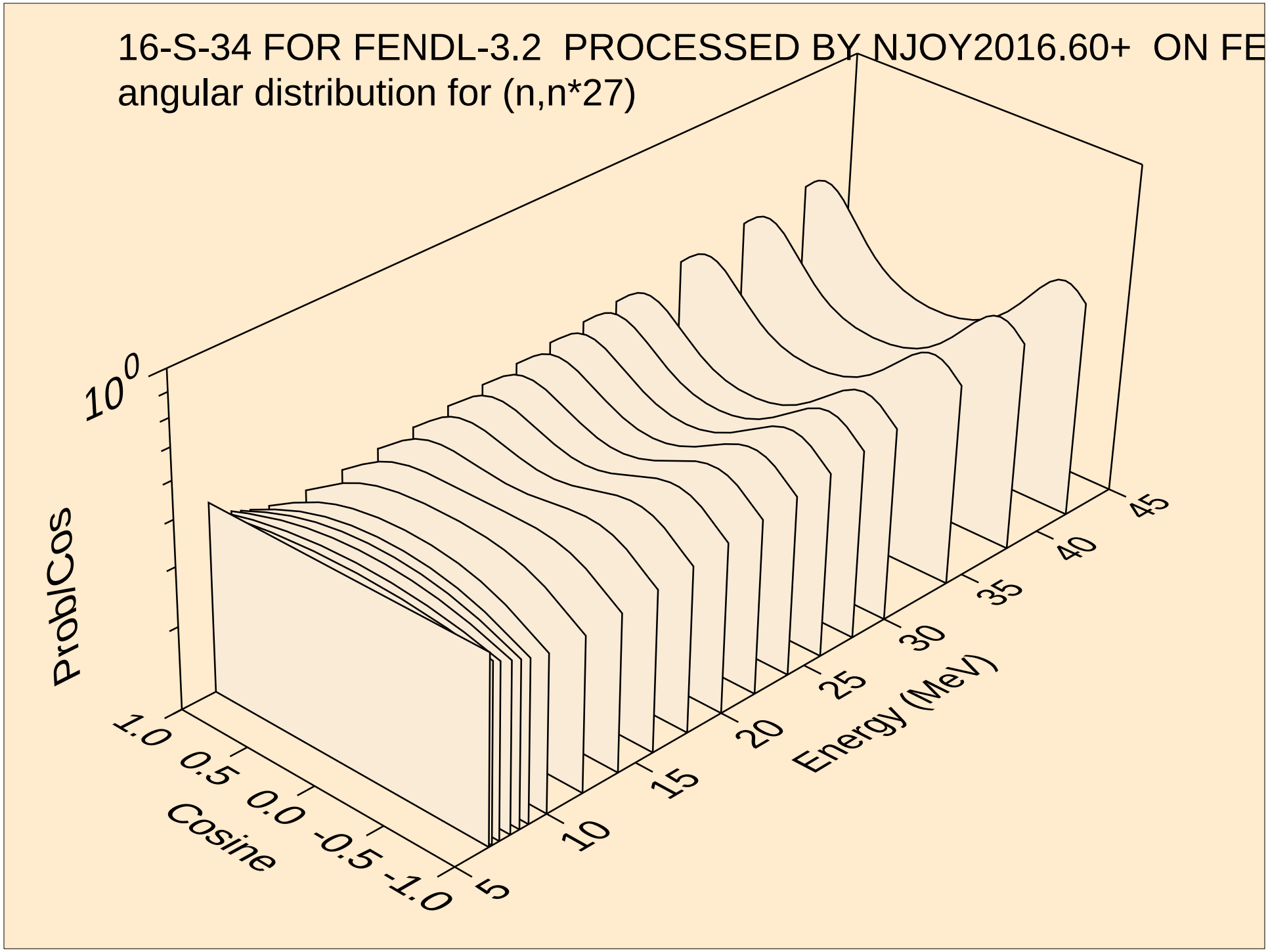

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*24)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

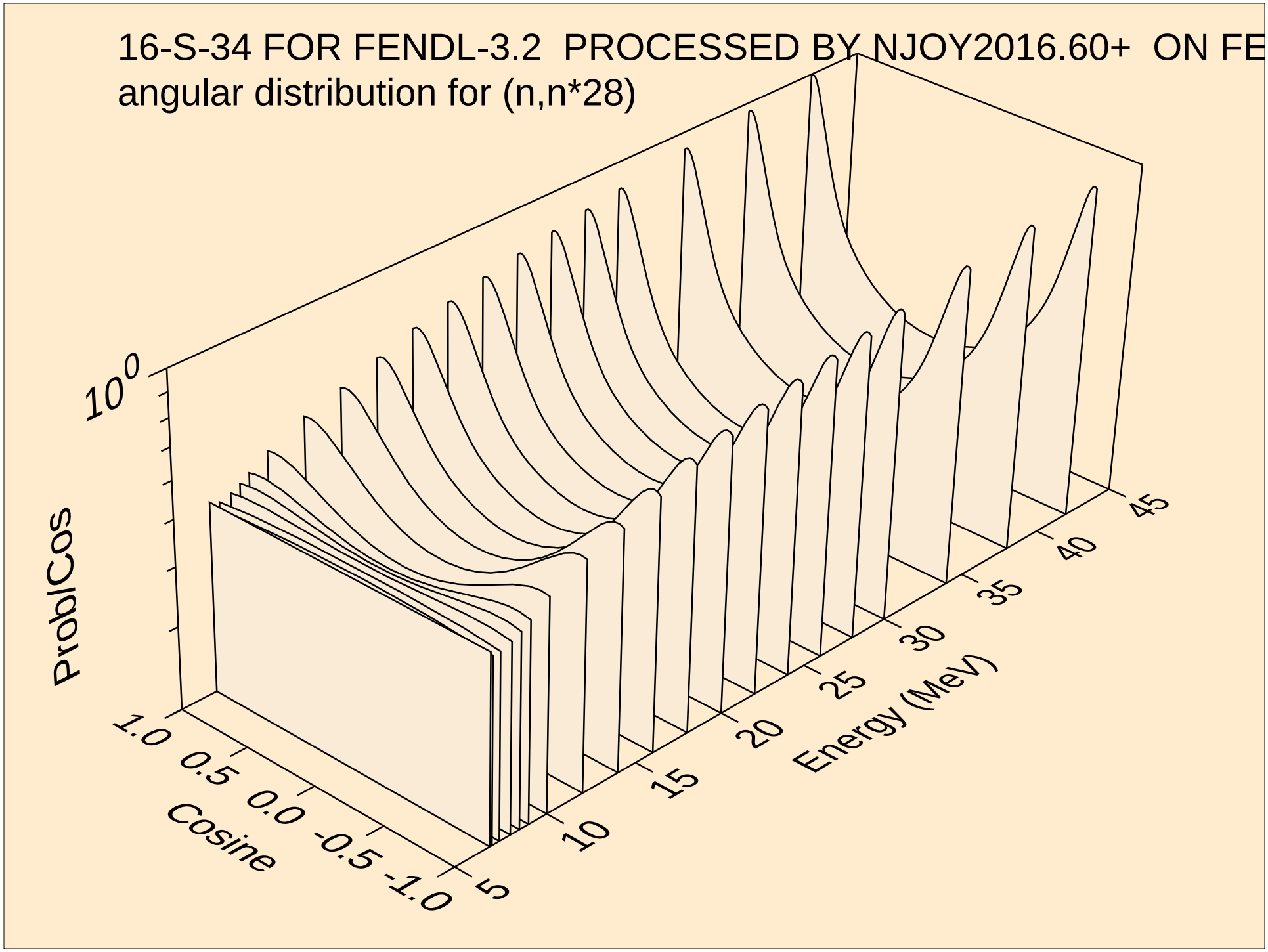

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*25)
ProblCos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

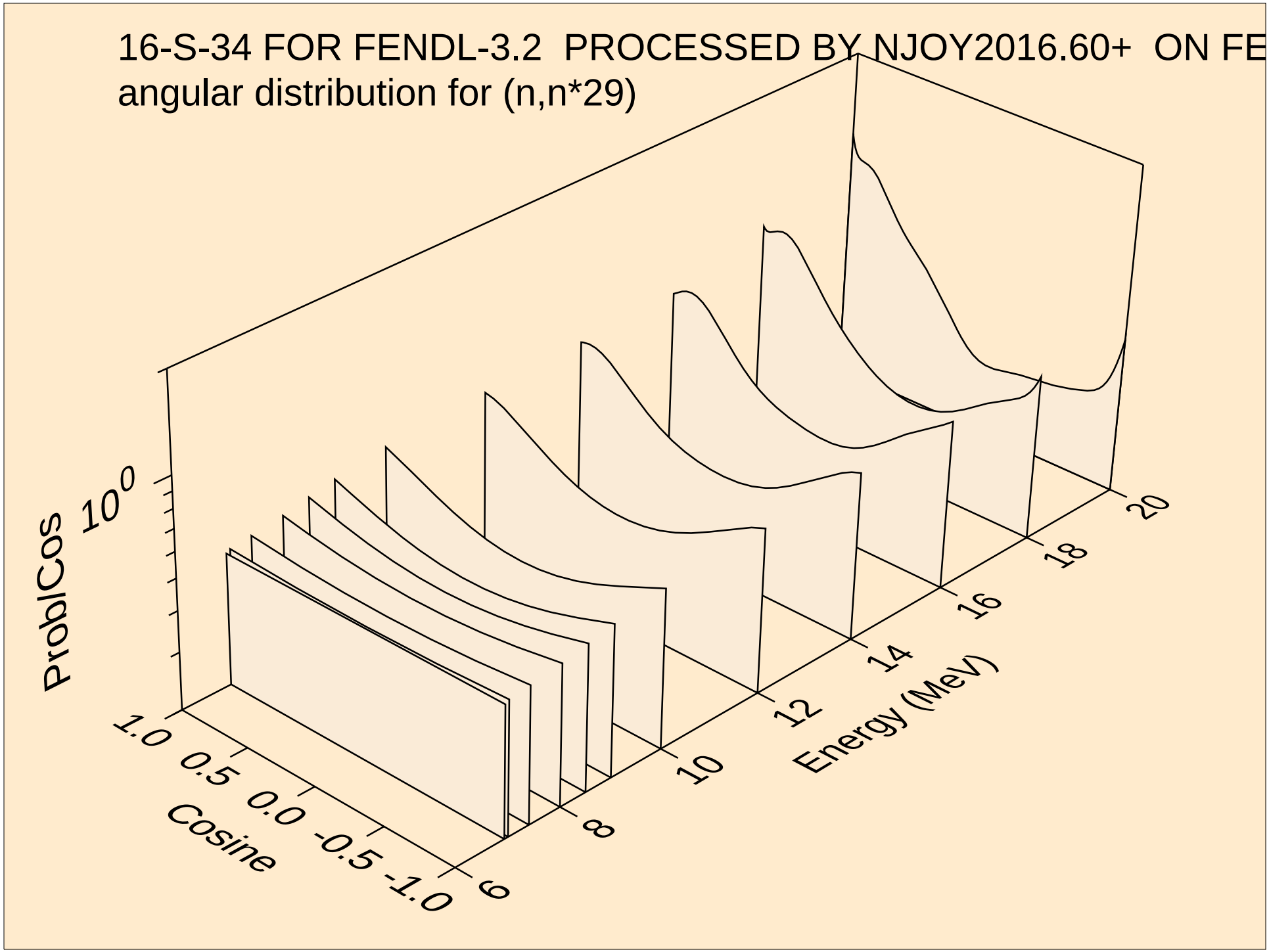

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*25)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

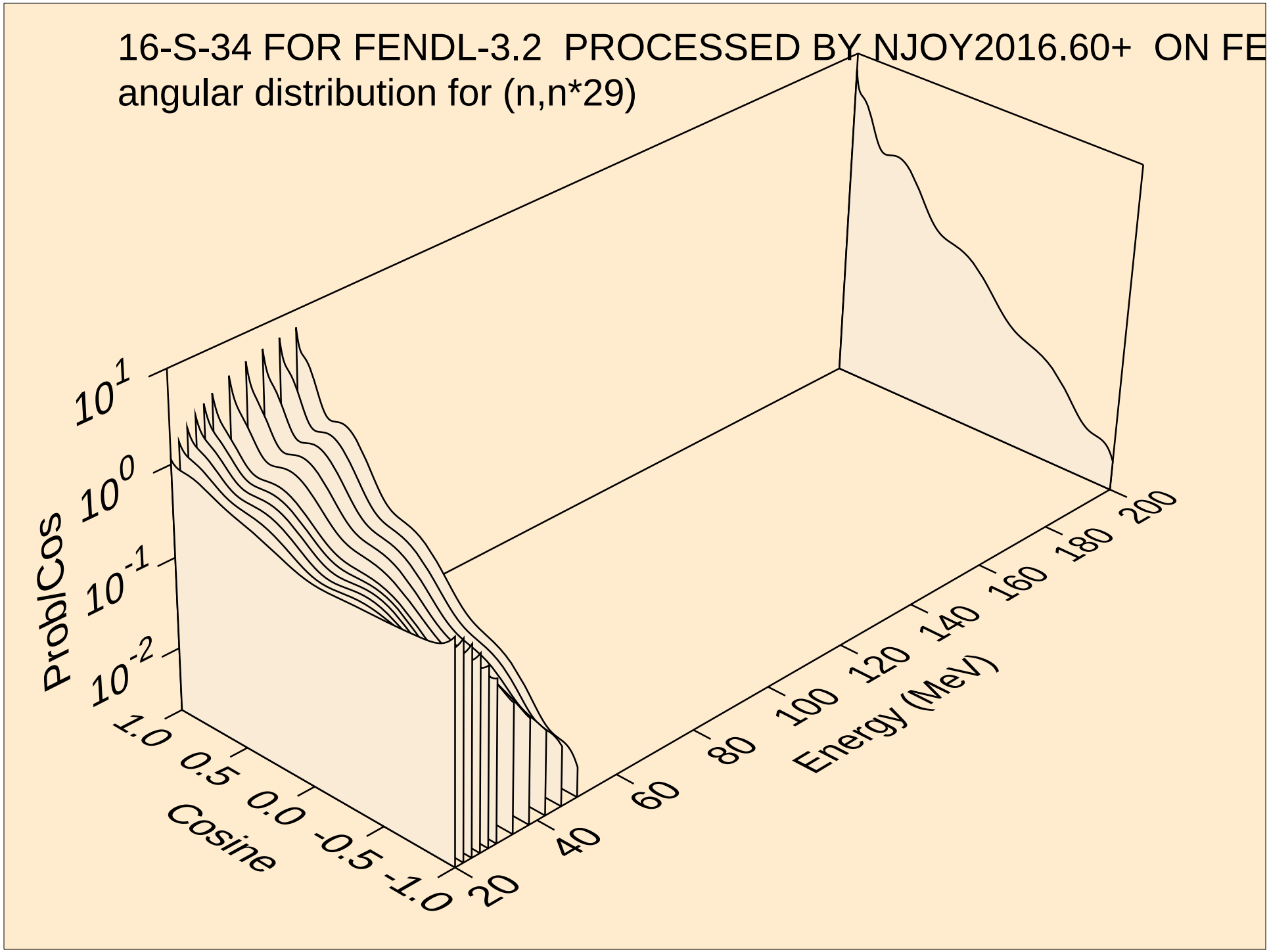

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*26)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

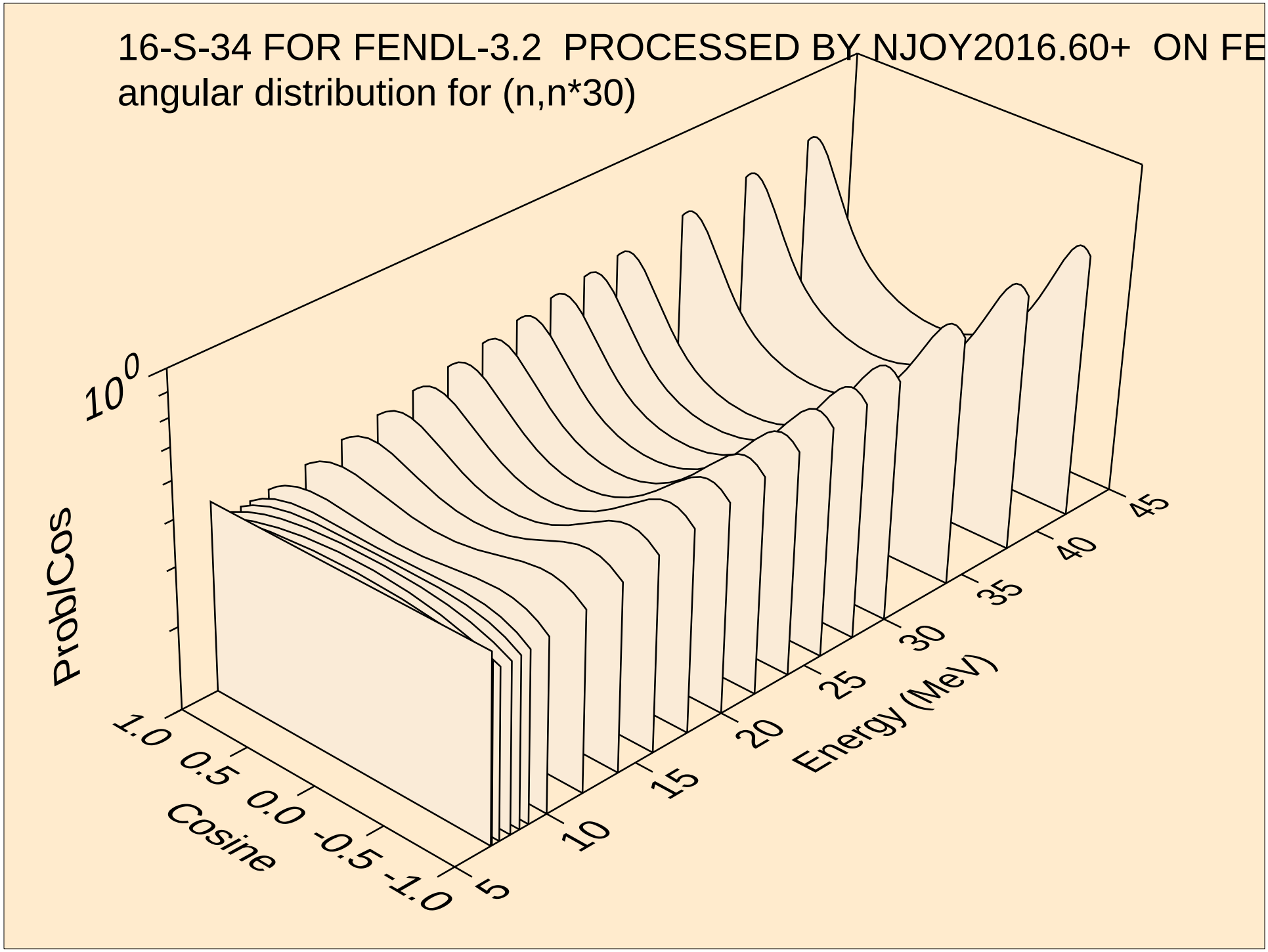

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*26)
ProbCos
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

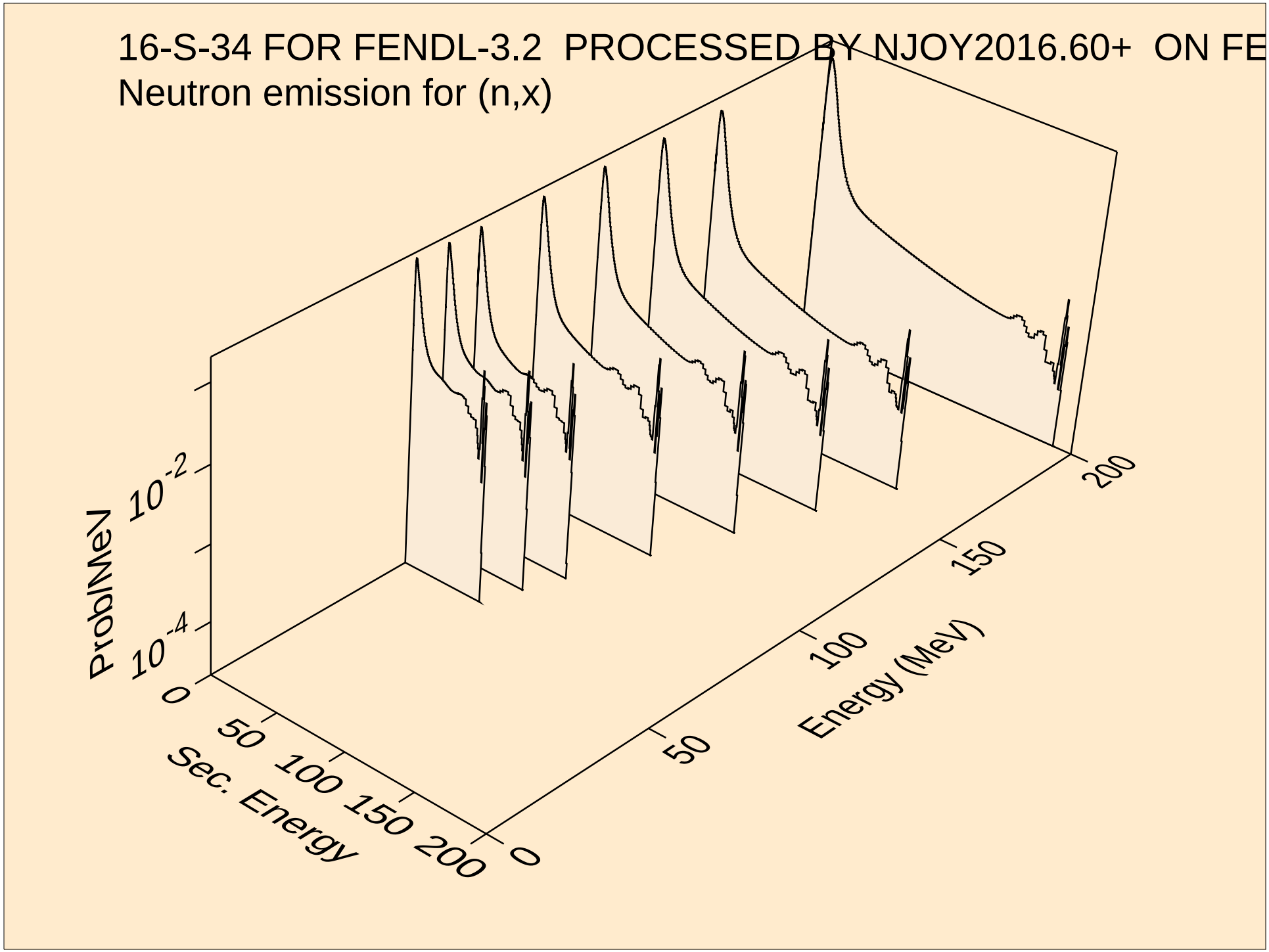

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*27)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

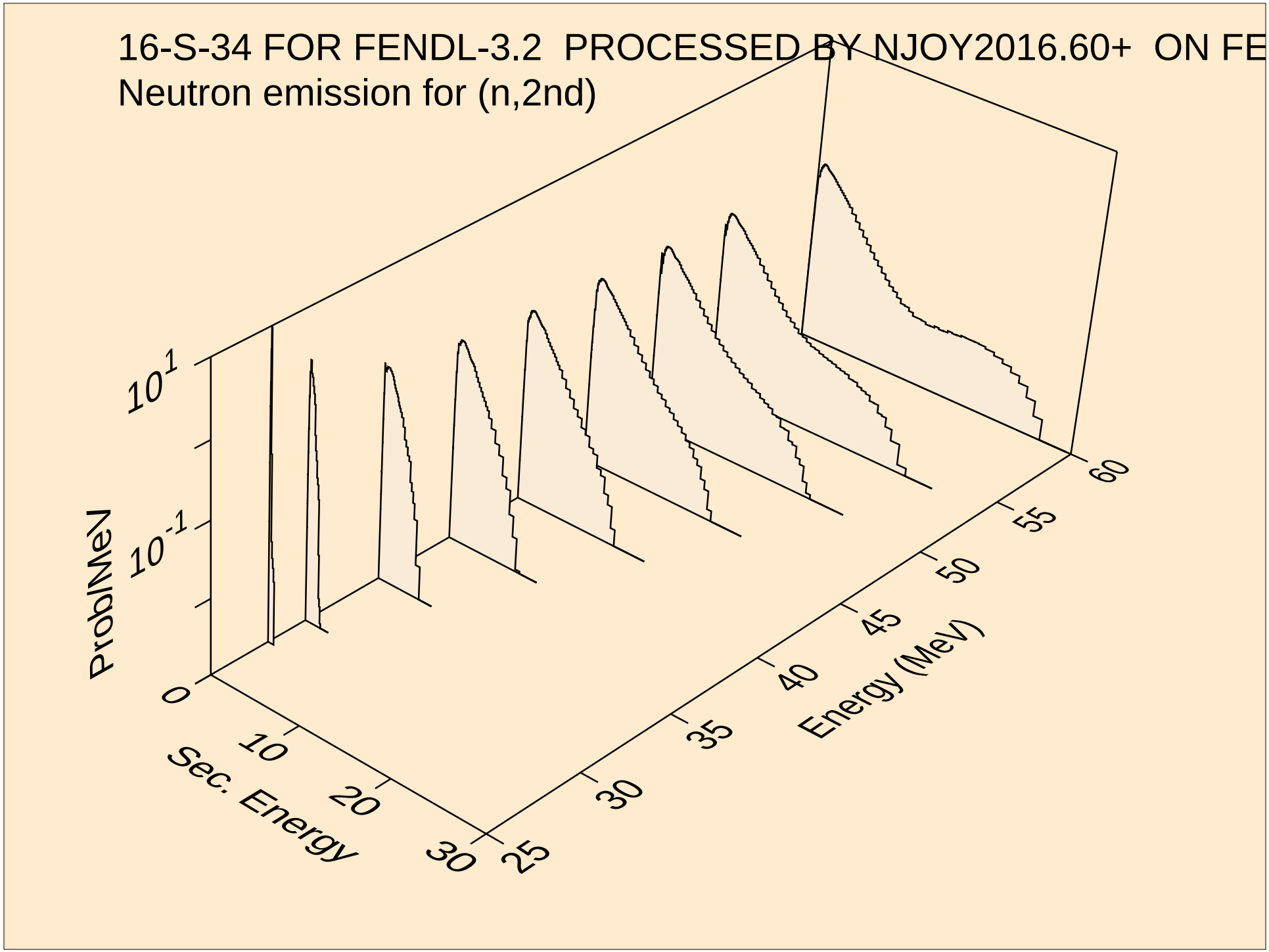

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*28)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

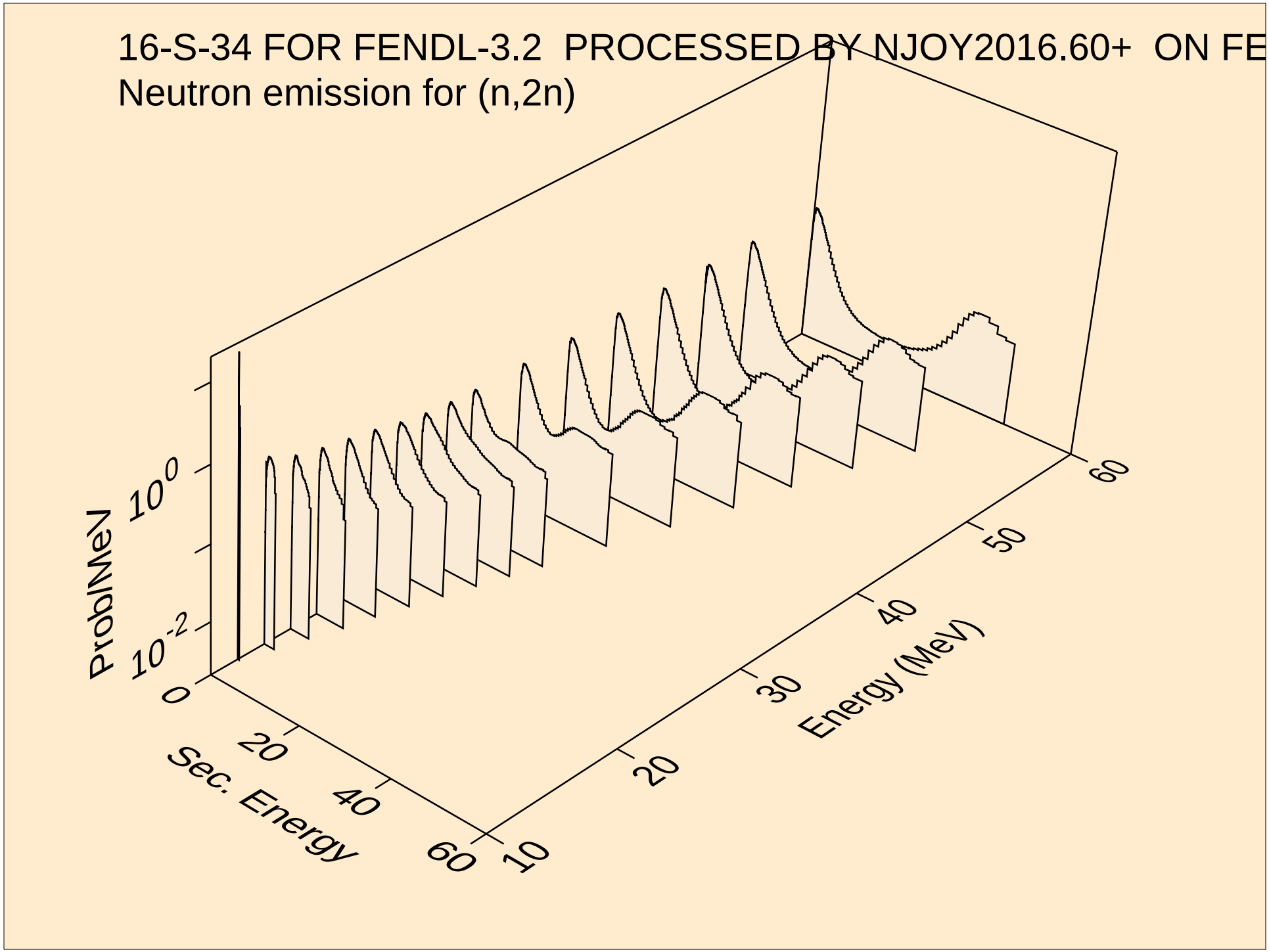

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*29)
ProbICos
10^0
1.0
0.5
0.0
-0.5
-1.0
Cosine
6
8
10
12
14
16
18
20
Energy (MeV)

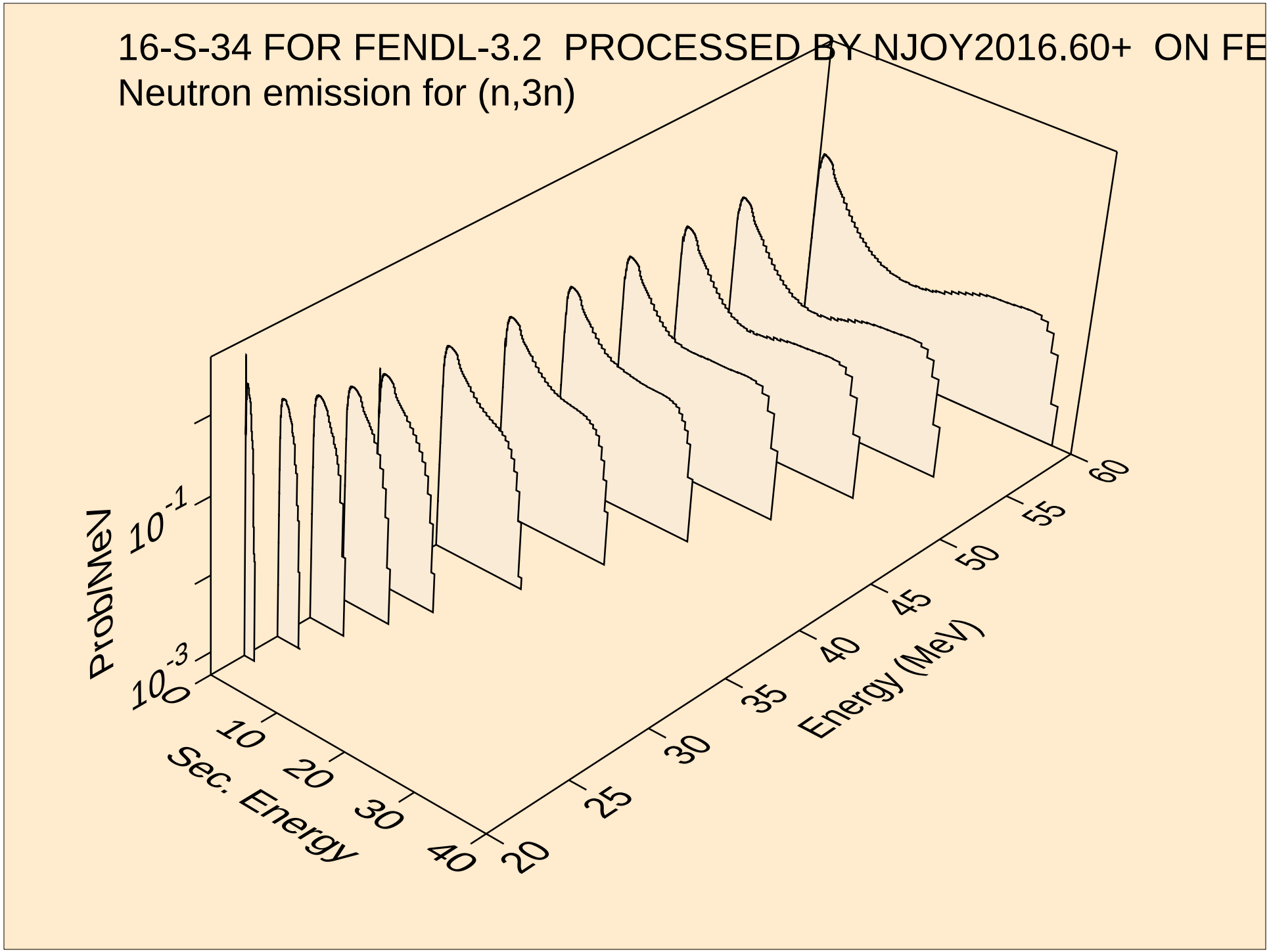

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*29)
ProbCos
10^{1}
10^{0}
10^{-1}
10^{-2}
1.0
0.5
0.0
-0.5
-1.0
Cosine
20
40
60
80
100
120
140
160
180
200
Energy (MeV)

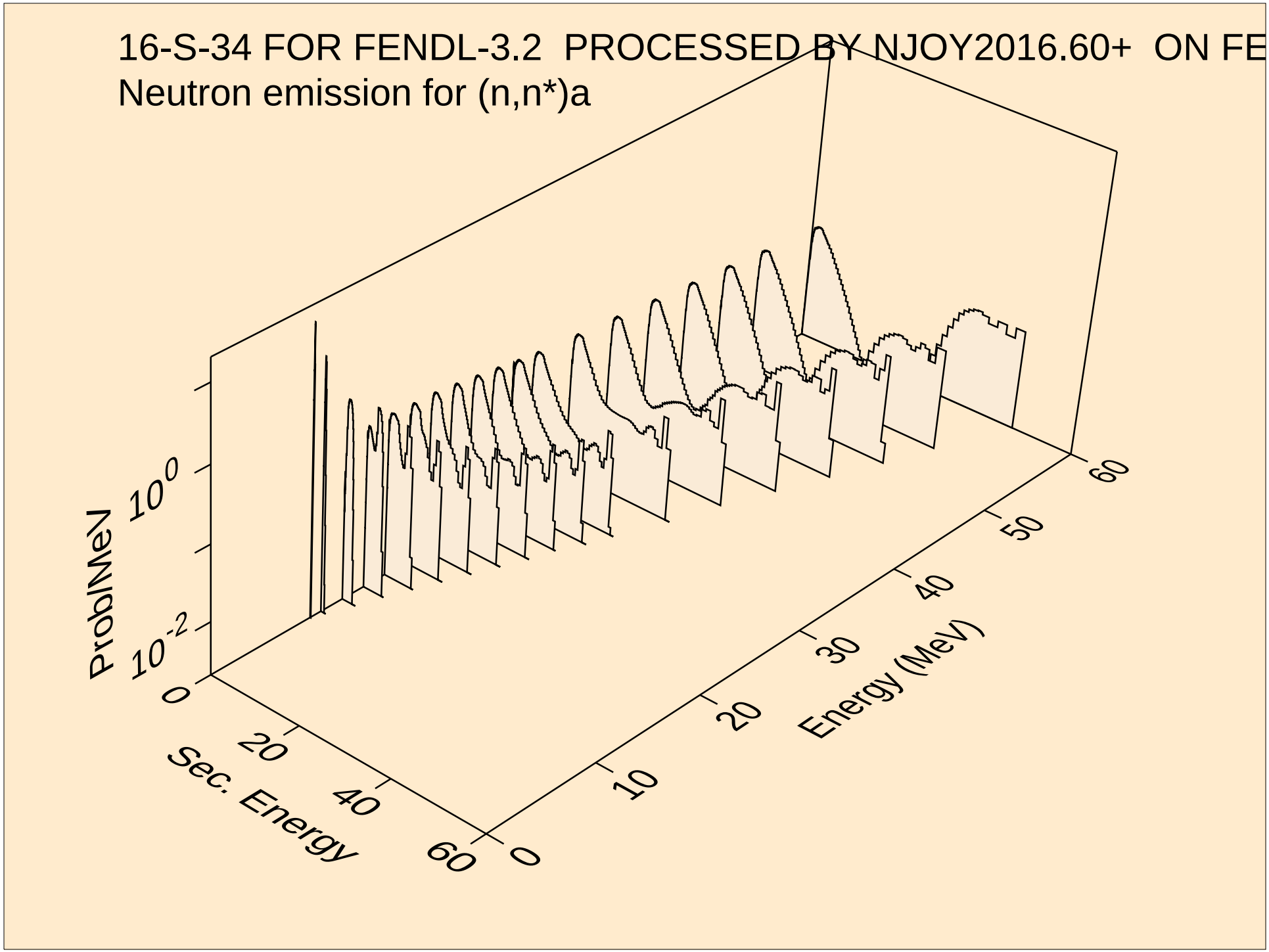

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
angular distribution for (n,n*30)
10^0
ProbICos
1.0
0.5
0.0
-0.5
-1.0
Cosine
5
10
15
20
25
30
35
40
45
Energy (MeV)

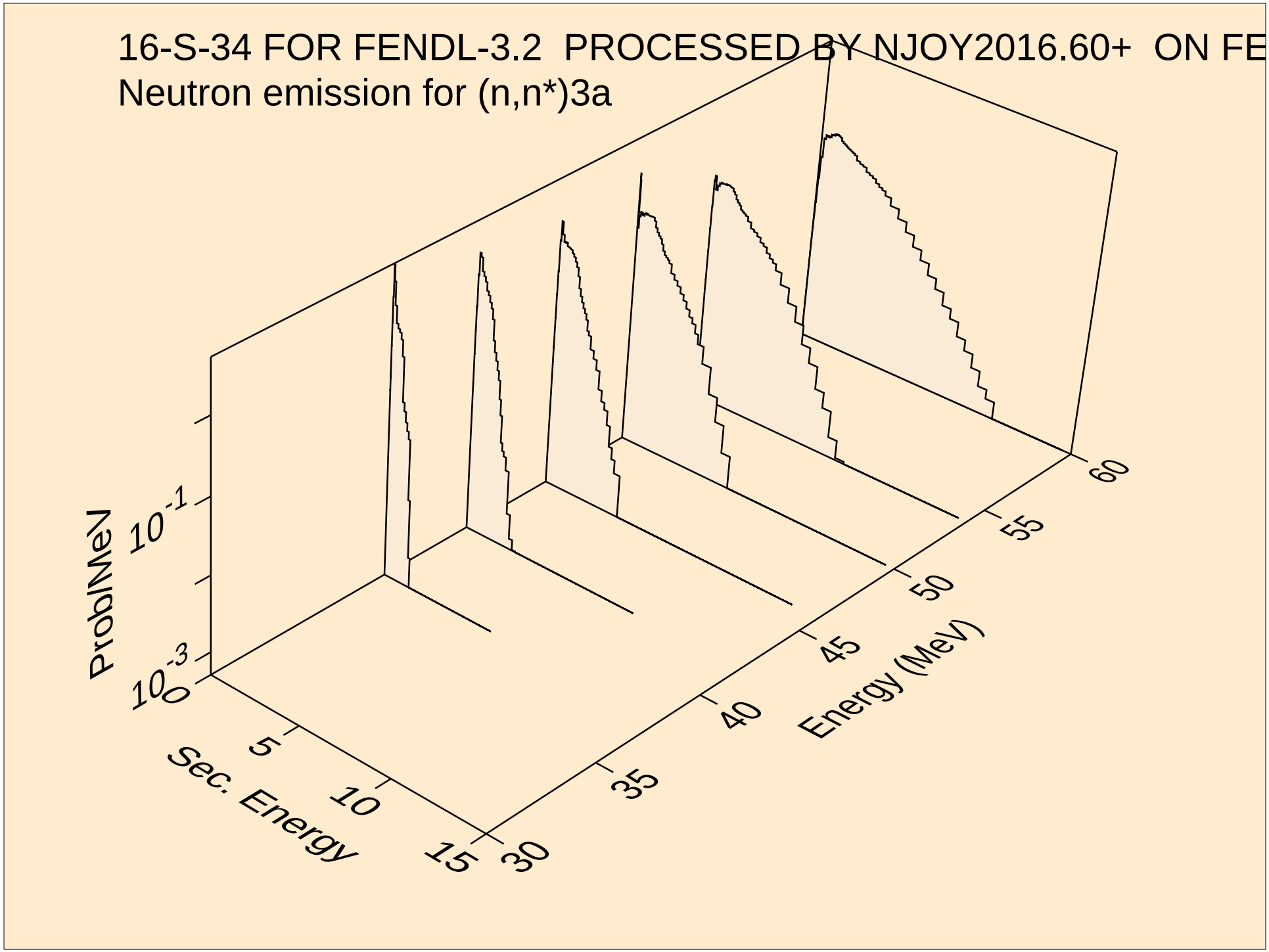

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
150
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

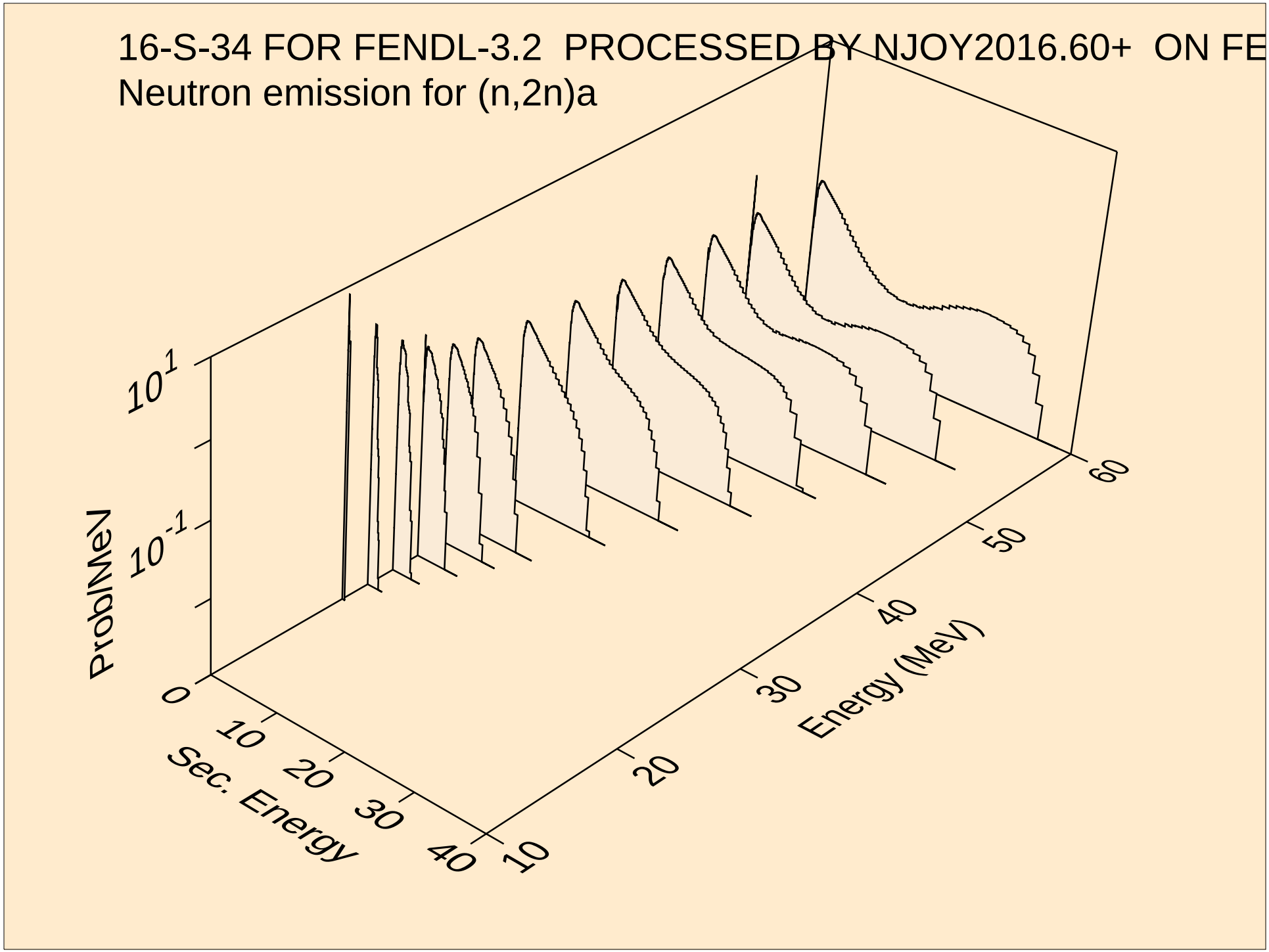

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2nd)
Prob/MeV
10^1
10^-1
0
10
20
30
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

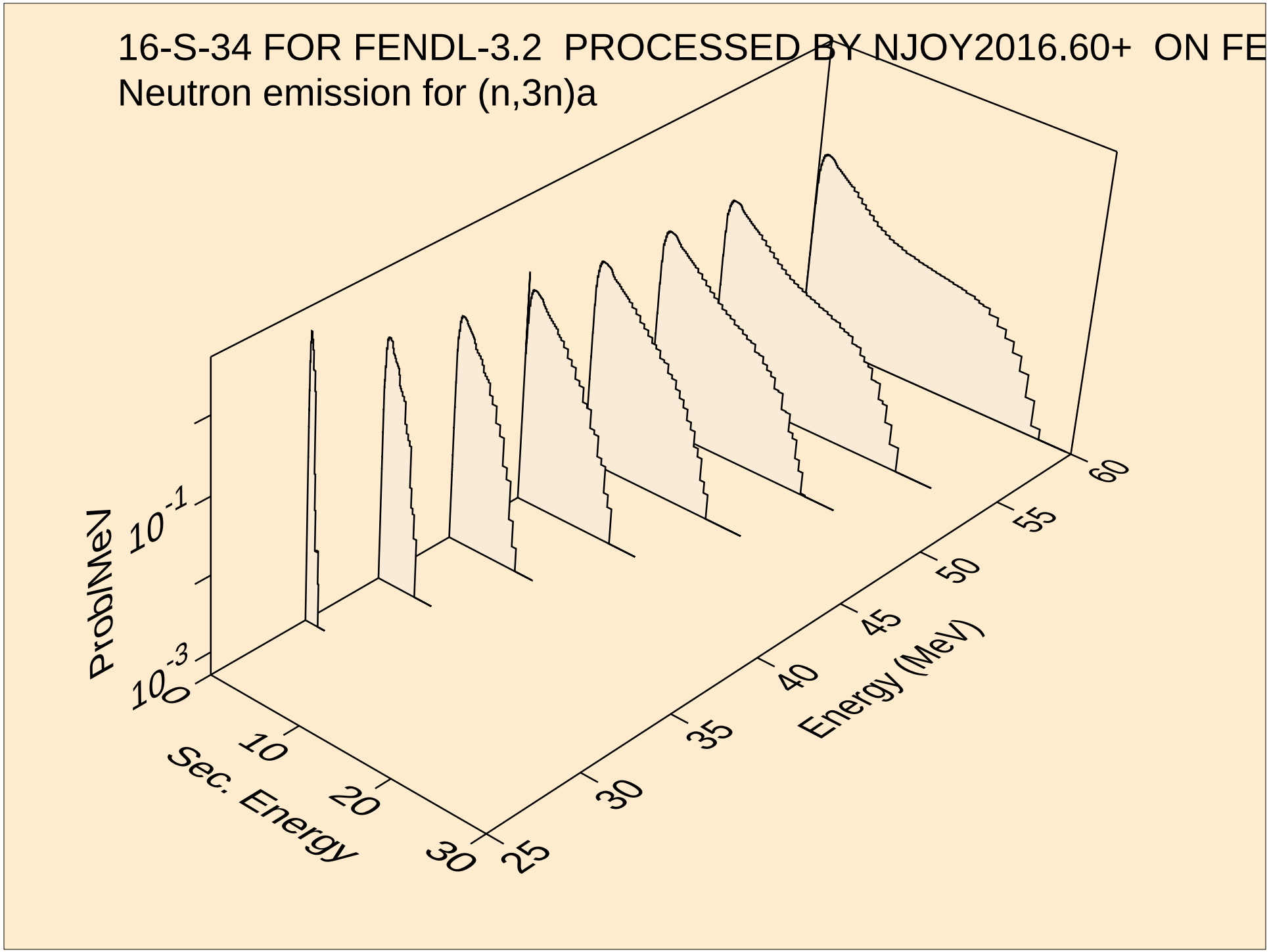

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2n)
Prob/MeV
10^0
10^-2
0
20
40
60
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

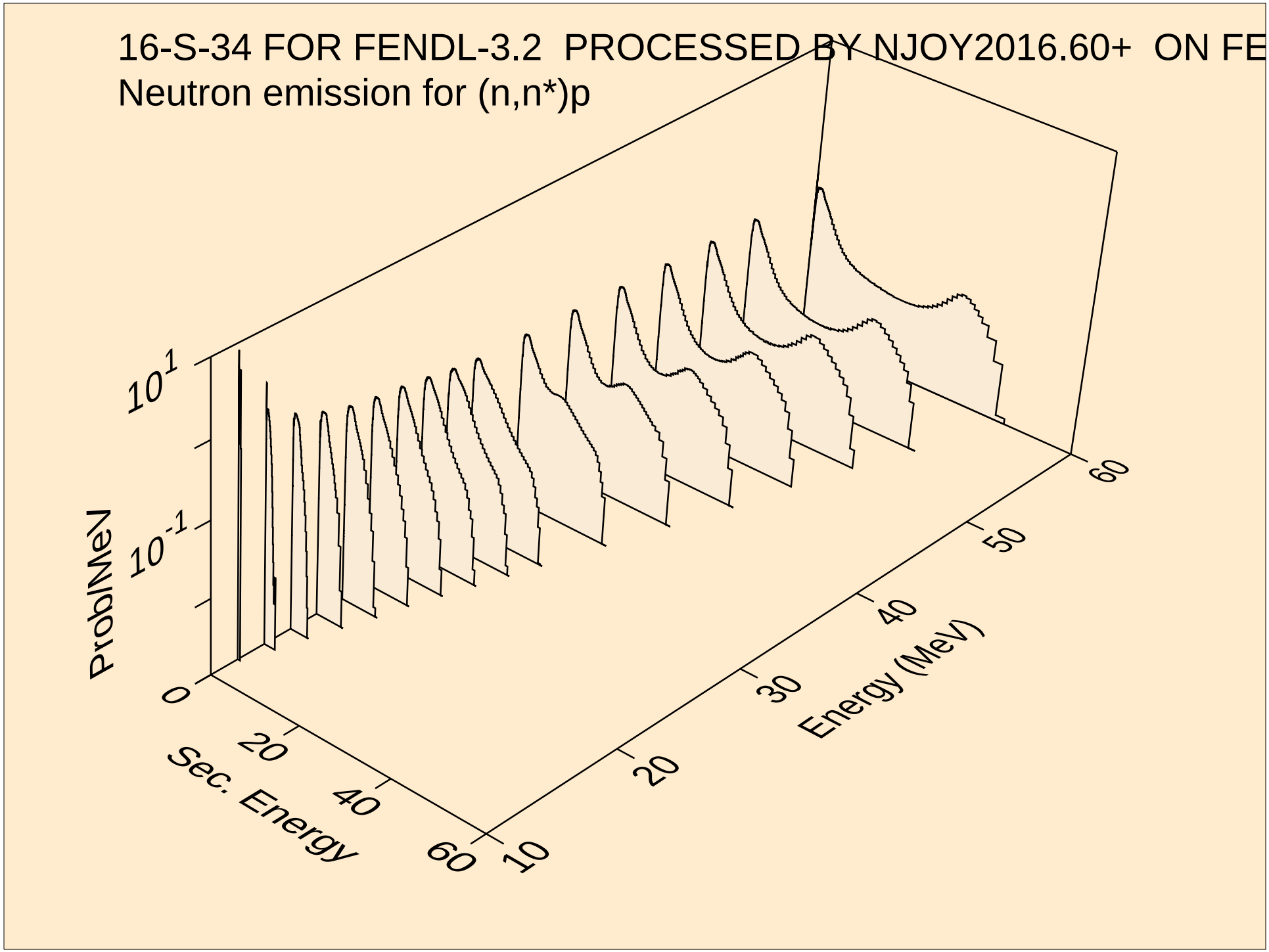

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3n)
Prob/MeV
10-1
10-3
0
10
20
30
40
Sec. Energy
20
25
30
35
40
45
50
55
60
Energy (MeV)

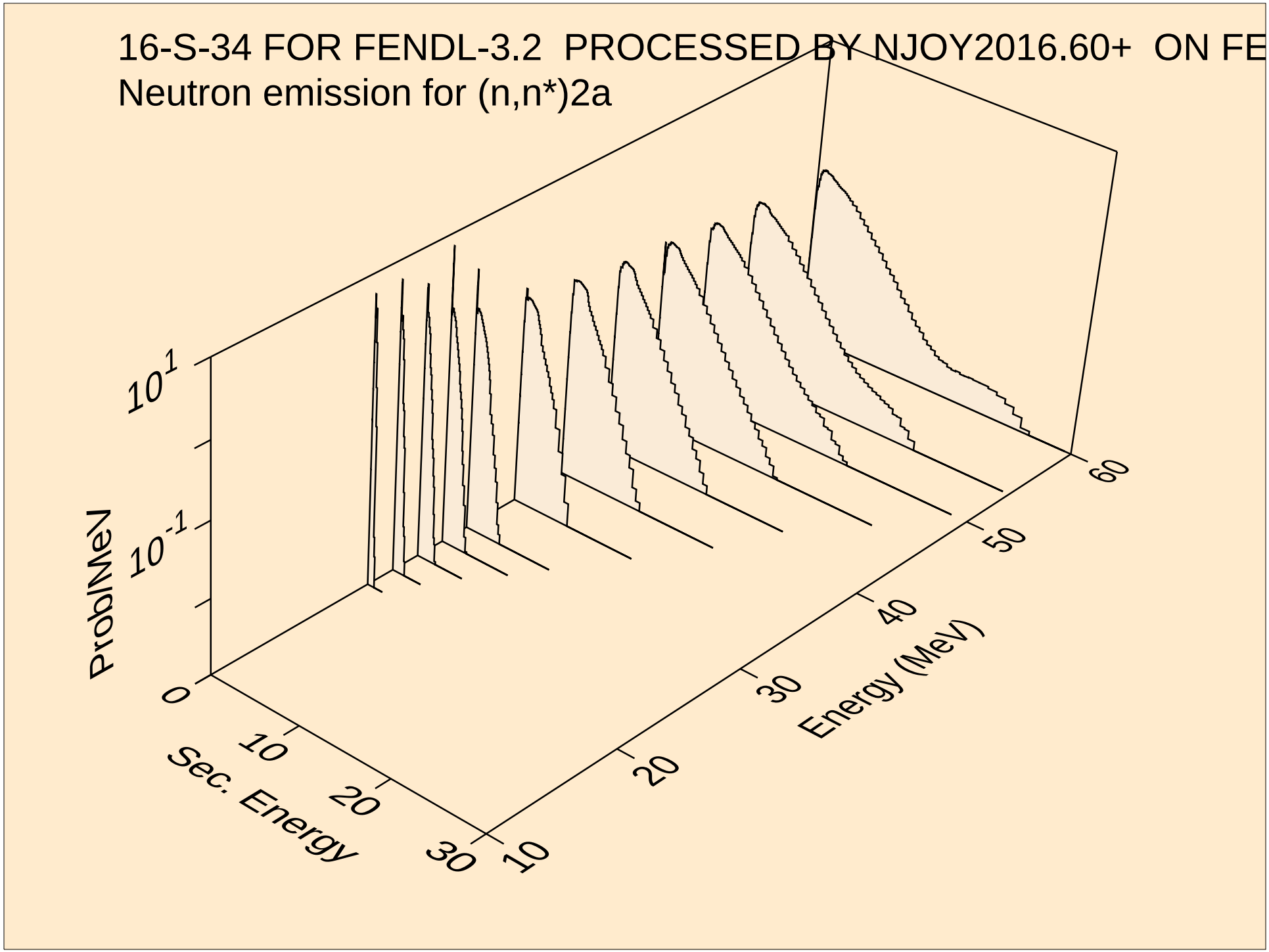

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)a
Prob/MeV
10^0
10^-2
0
20
40
60
Sec. Energy
0
10
20
30
40
50
60
Energy (MeV)

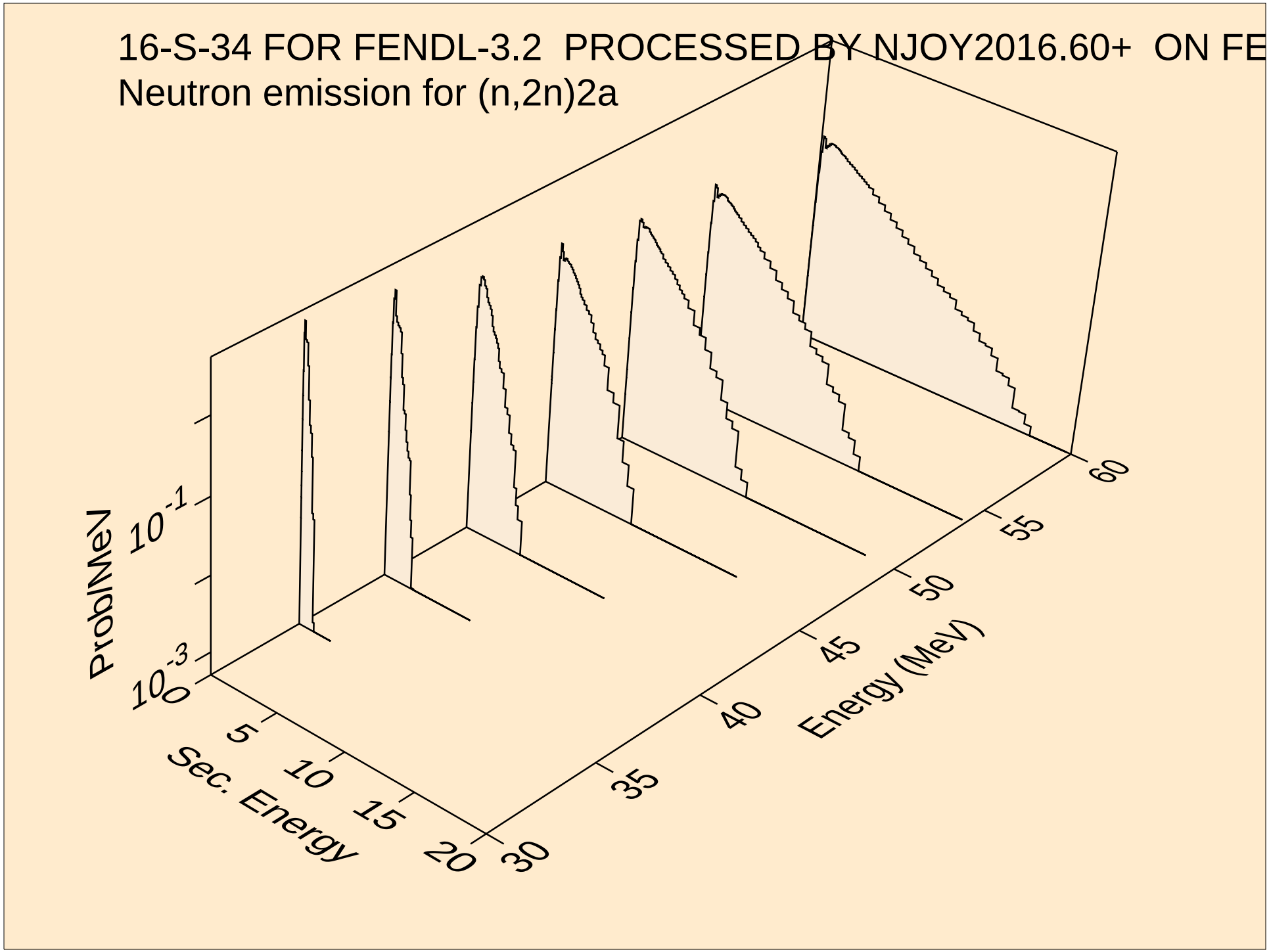

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)3a
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
30
35
40
45
50
55
60
Energy (MeV)

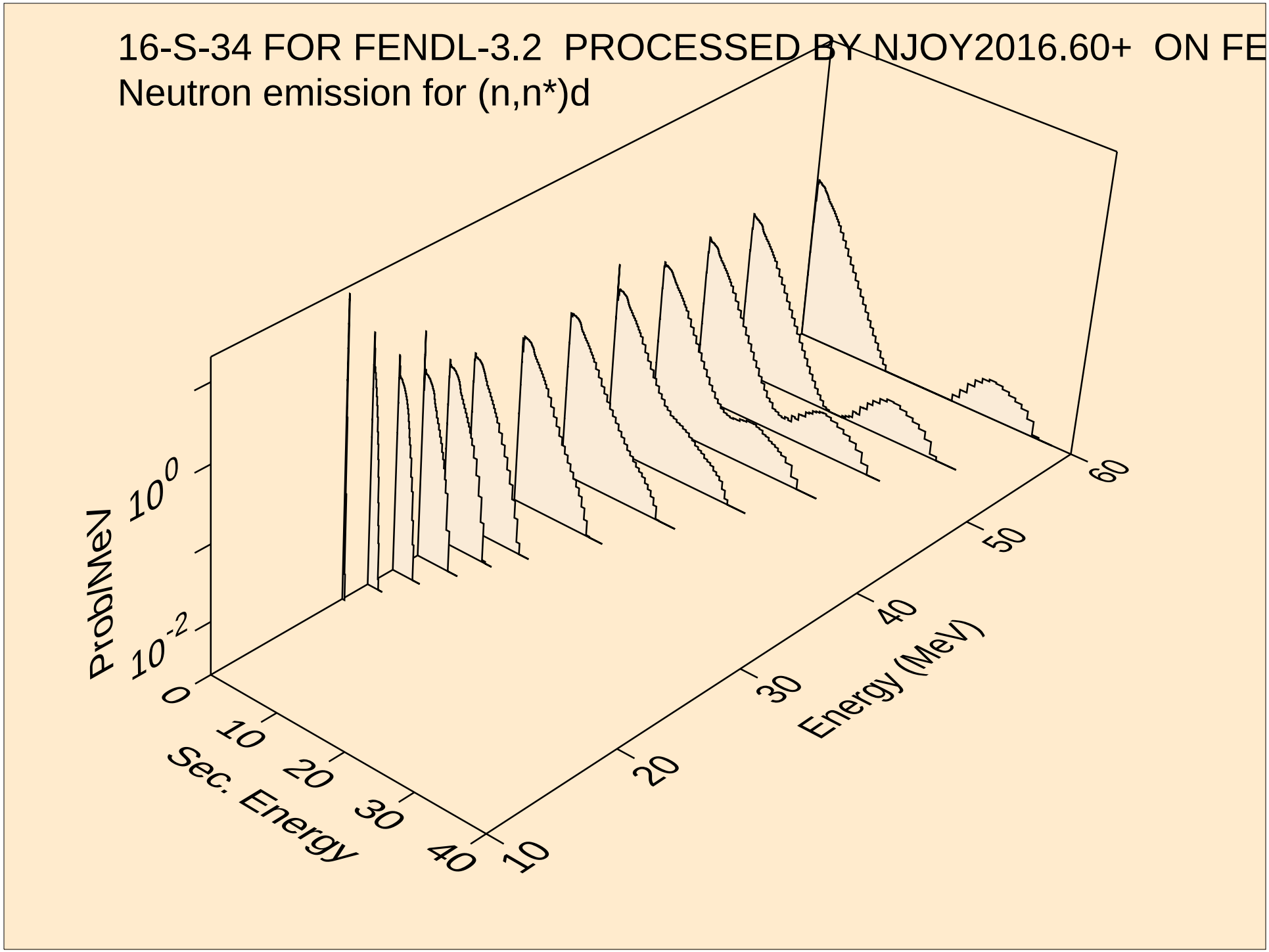

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2n)a
Prob/MeV
10^1
10^-1
0
10
20
30
40
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

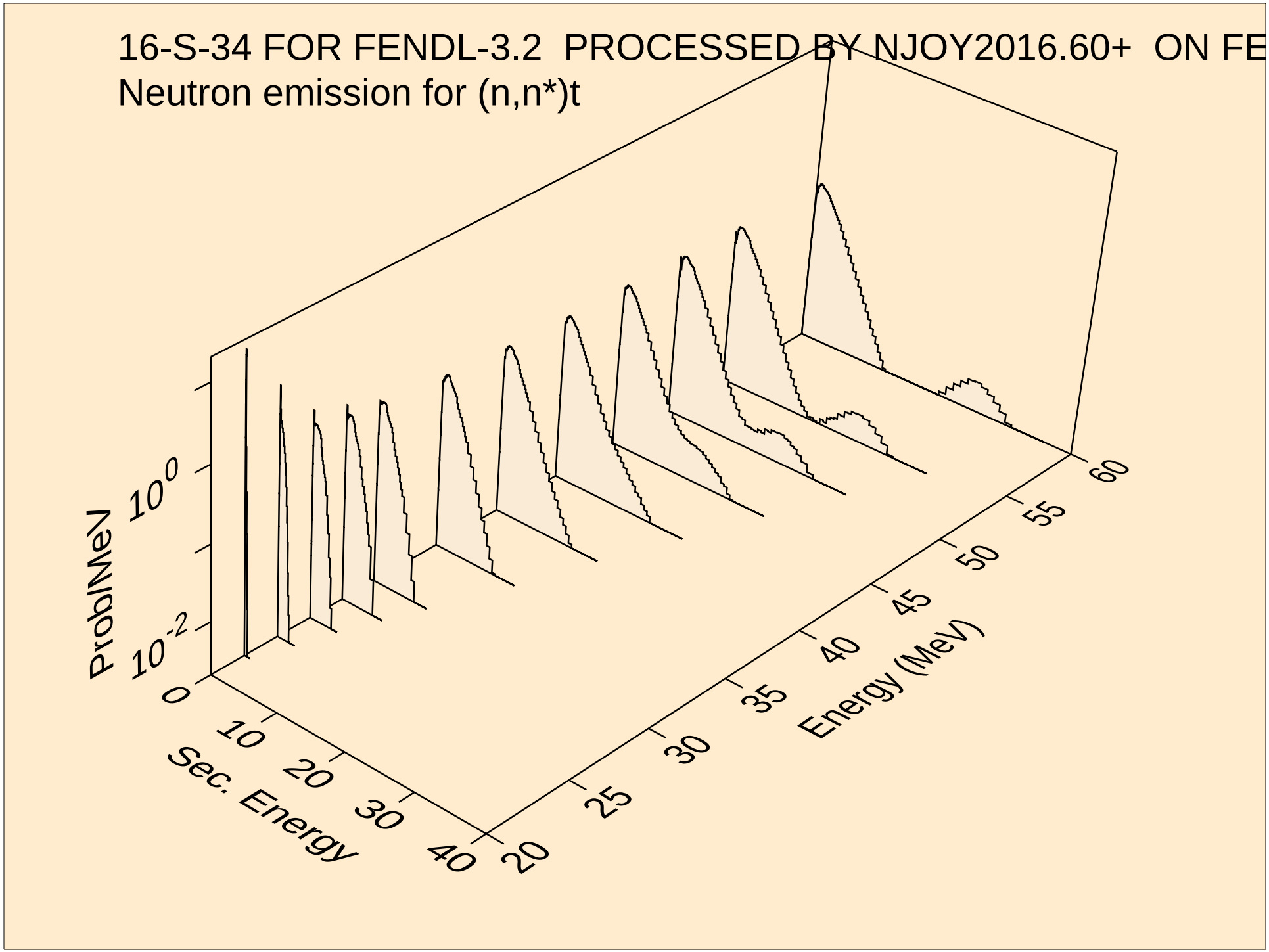

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3n)a
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

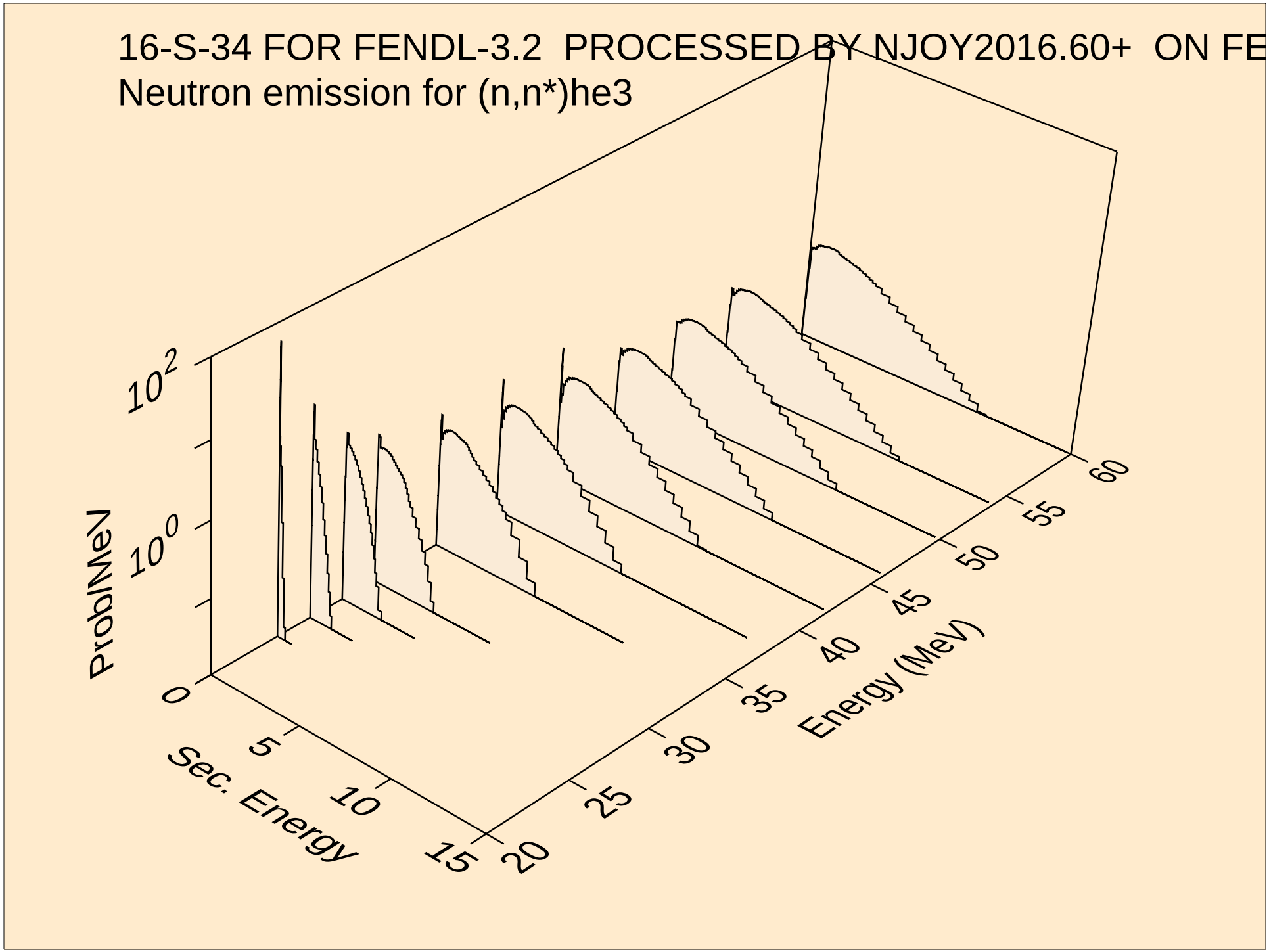

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)p
Prob/MeV
10^1
10^-1
0
20
40
60
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

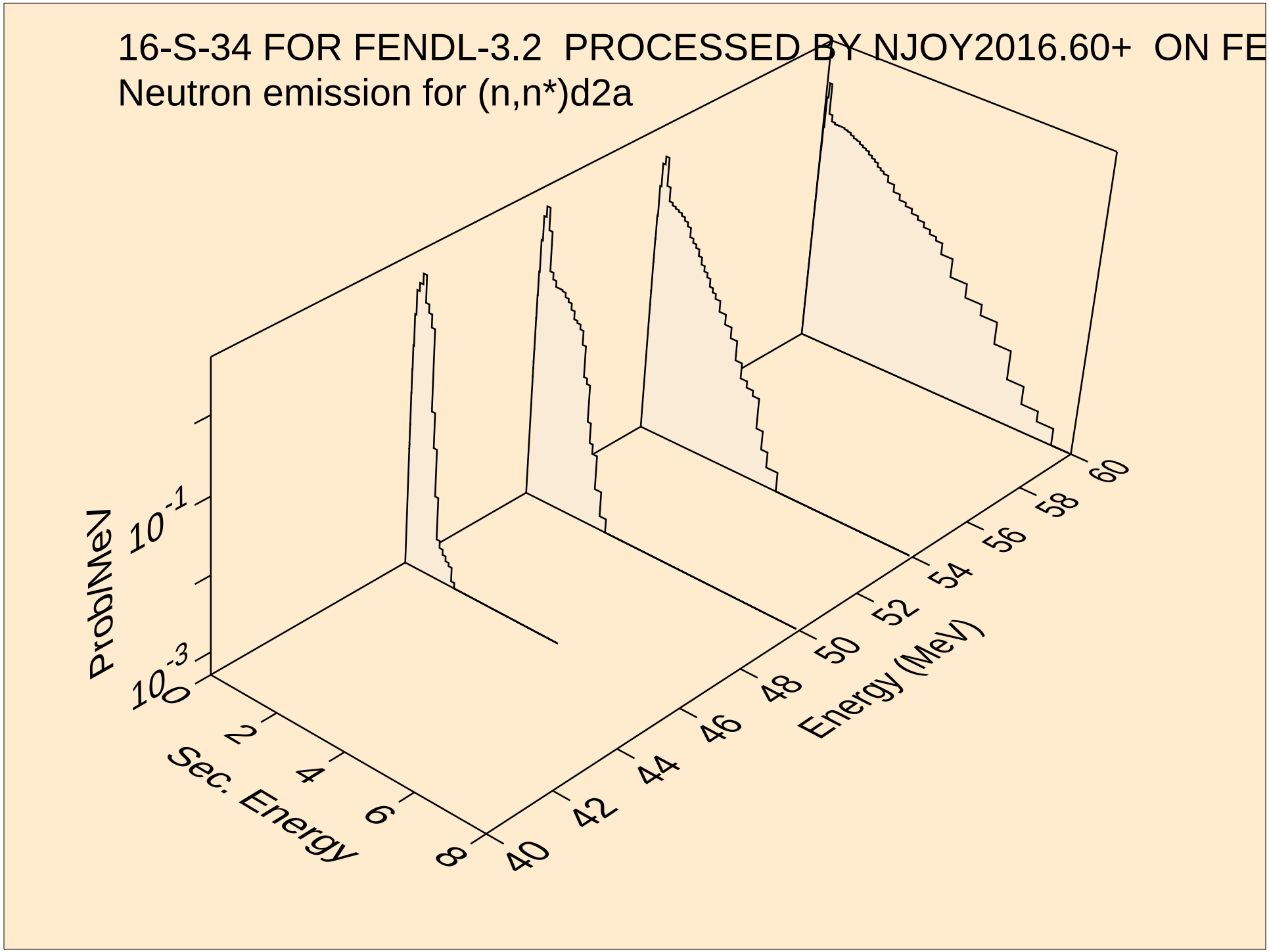

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)2a
Prob/MeV
10^1
10^-1
0
Sec. Energy
10
20
30
10
20
30
40
50
60
Energy (MeV)

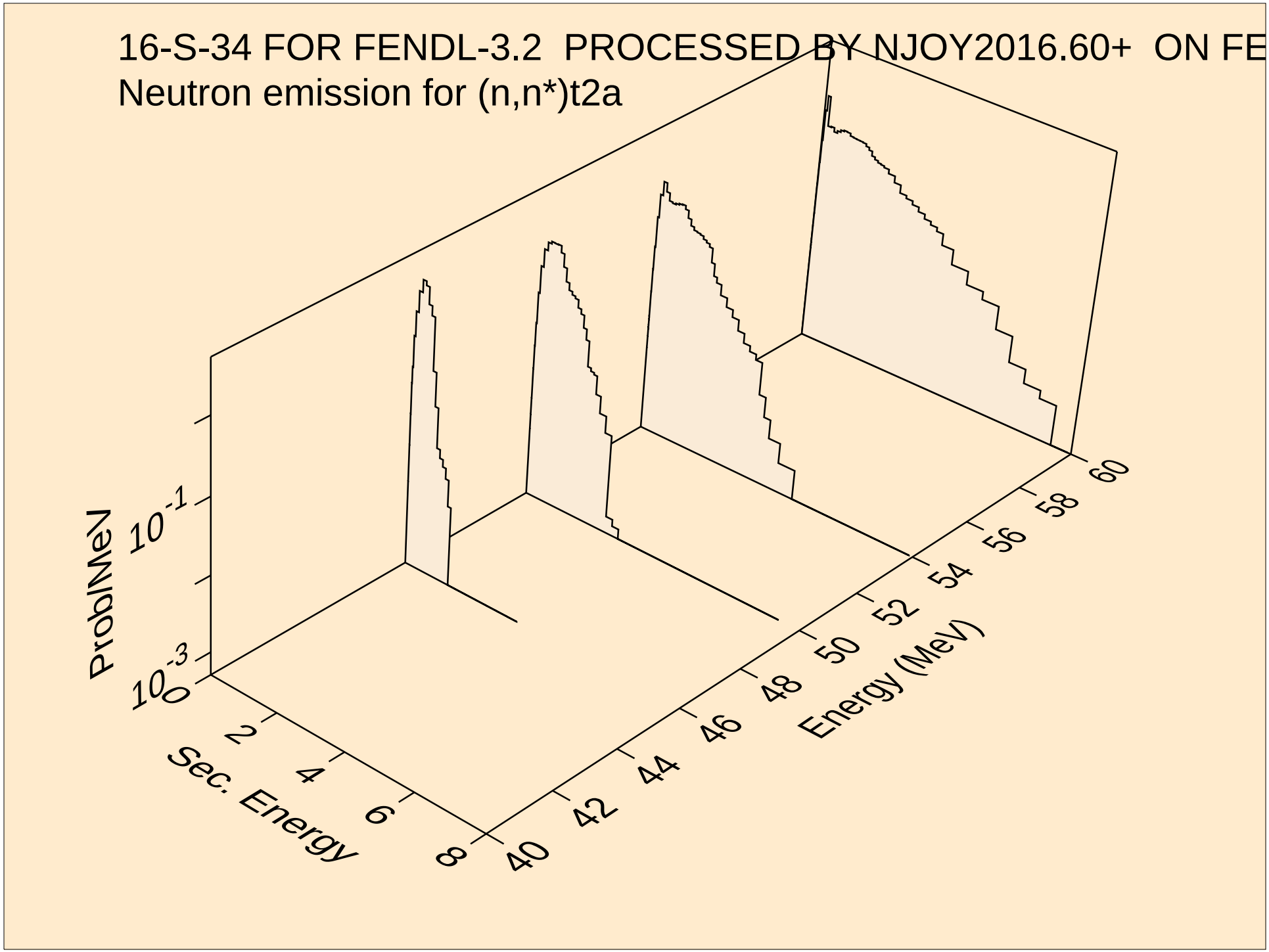

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2n)2a
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
30
35
40
45
50
55
60
Energy (MeV)

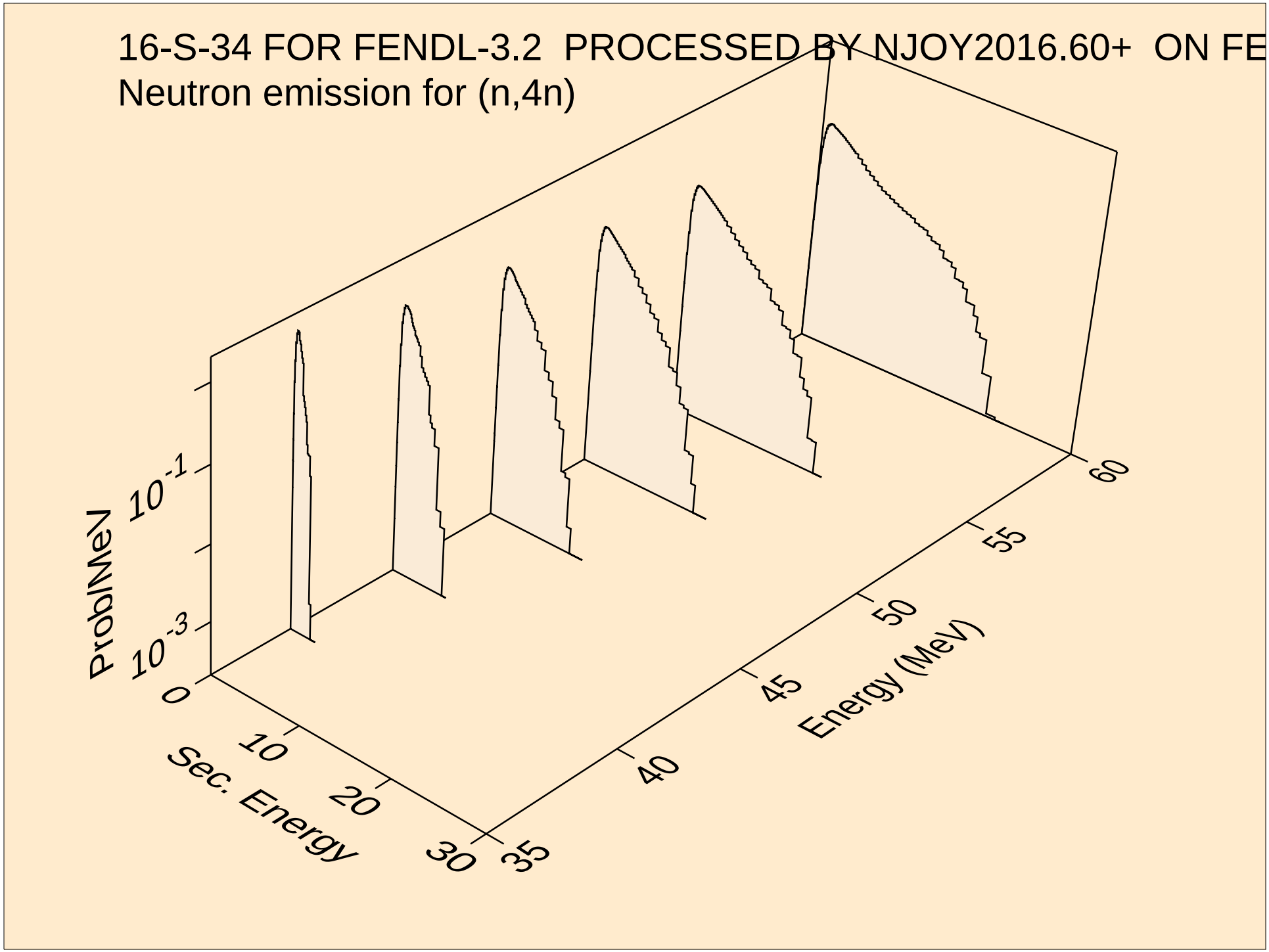

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)d
Prob/MeV
10^0
10^-2
0
10
20
30
40
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

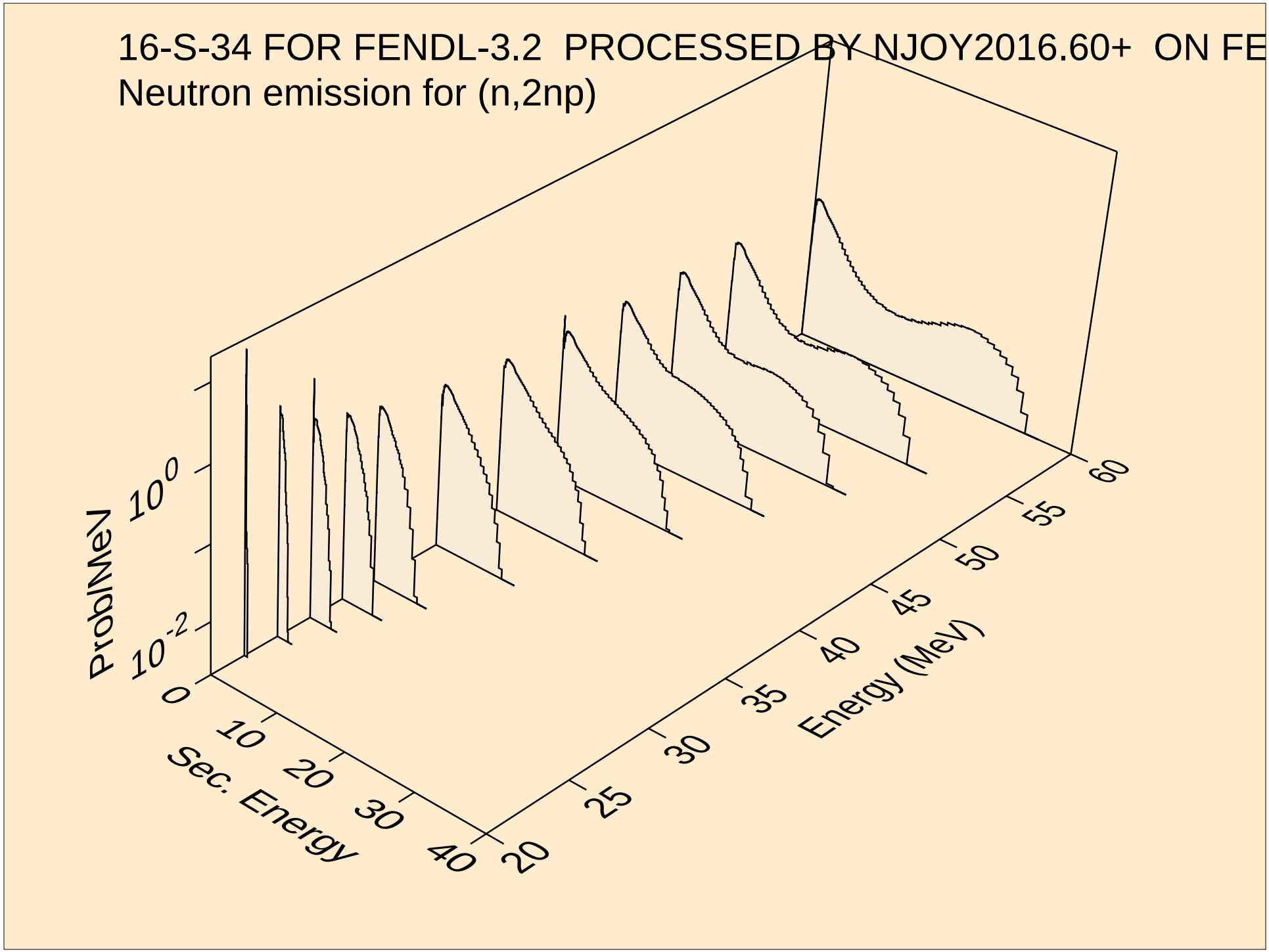

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)t
Prob/MeV
10^0
10^-2
0
10
20
30
40
Sec. Energy
20
25
30
35
40
45
50
55
60
Energy (MeV)

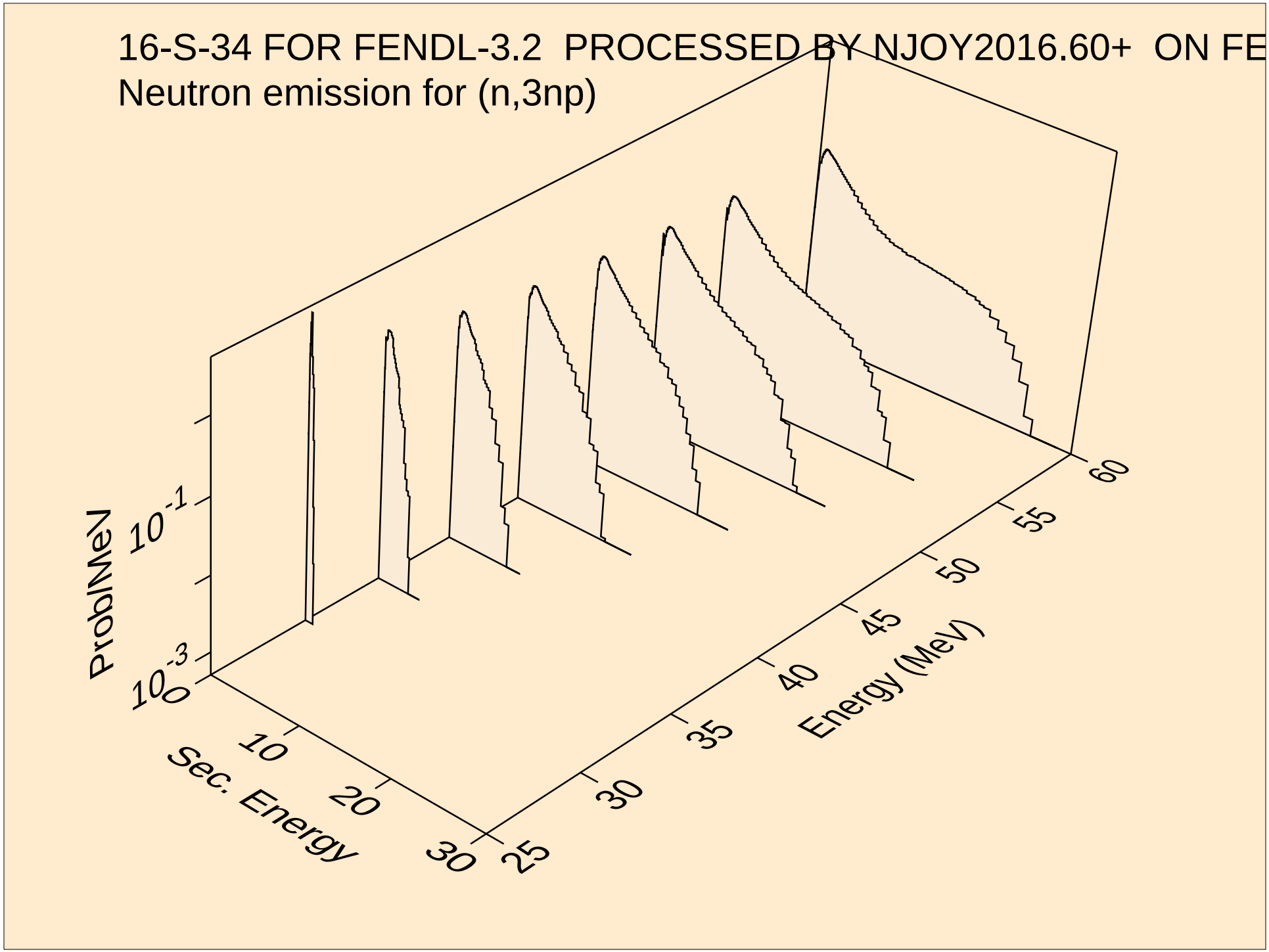

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)he3
Prob/MeV
10^2
10^0
0
5
10
15
20
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

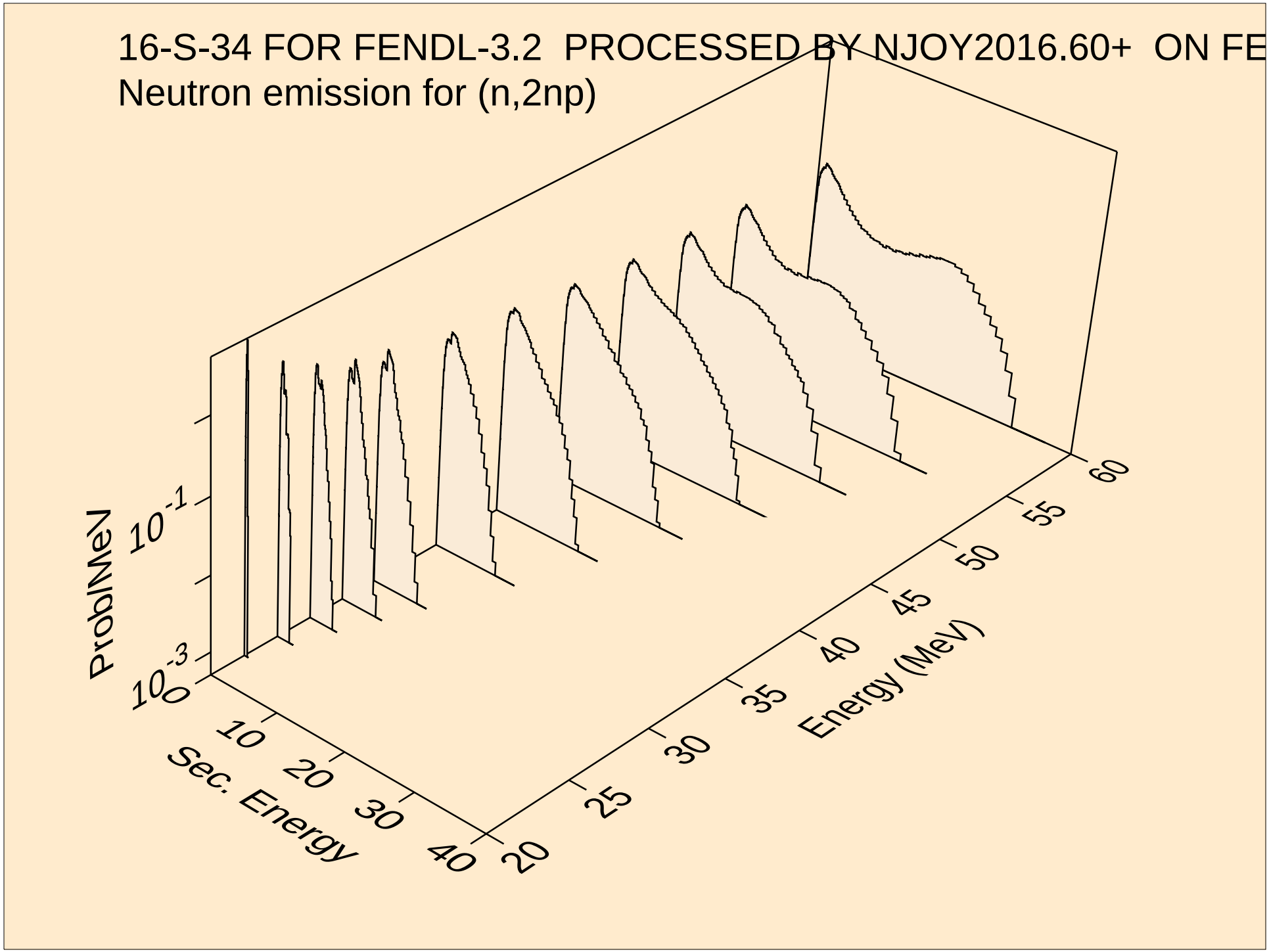

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)d2a
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

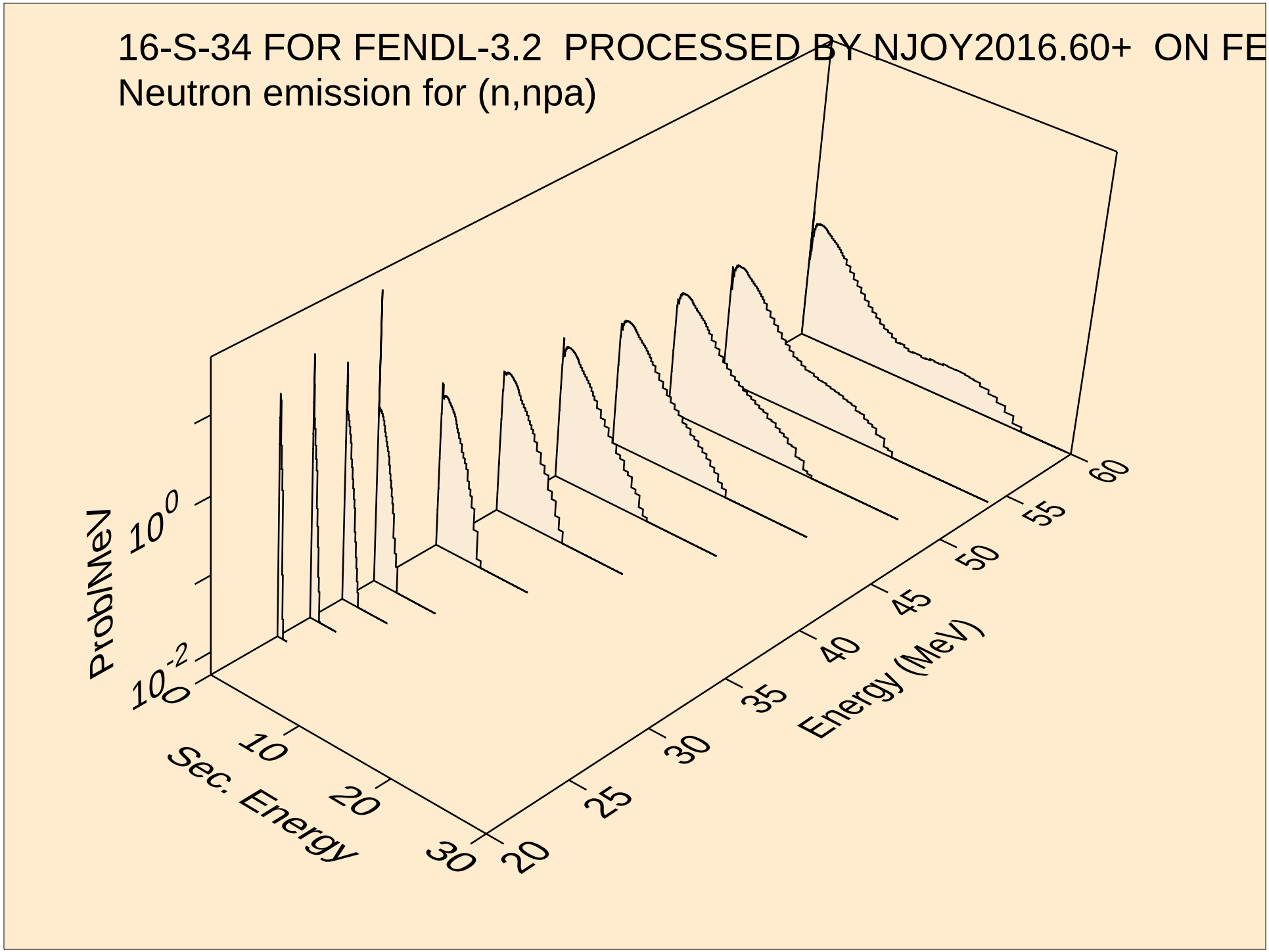

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*)t2a
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

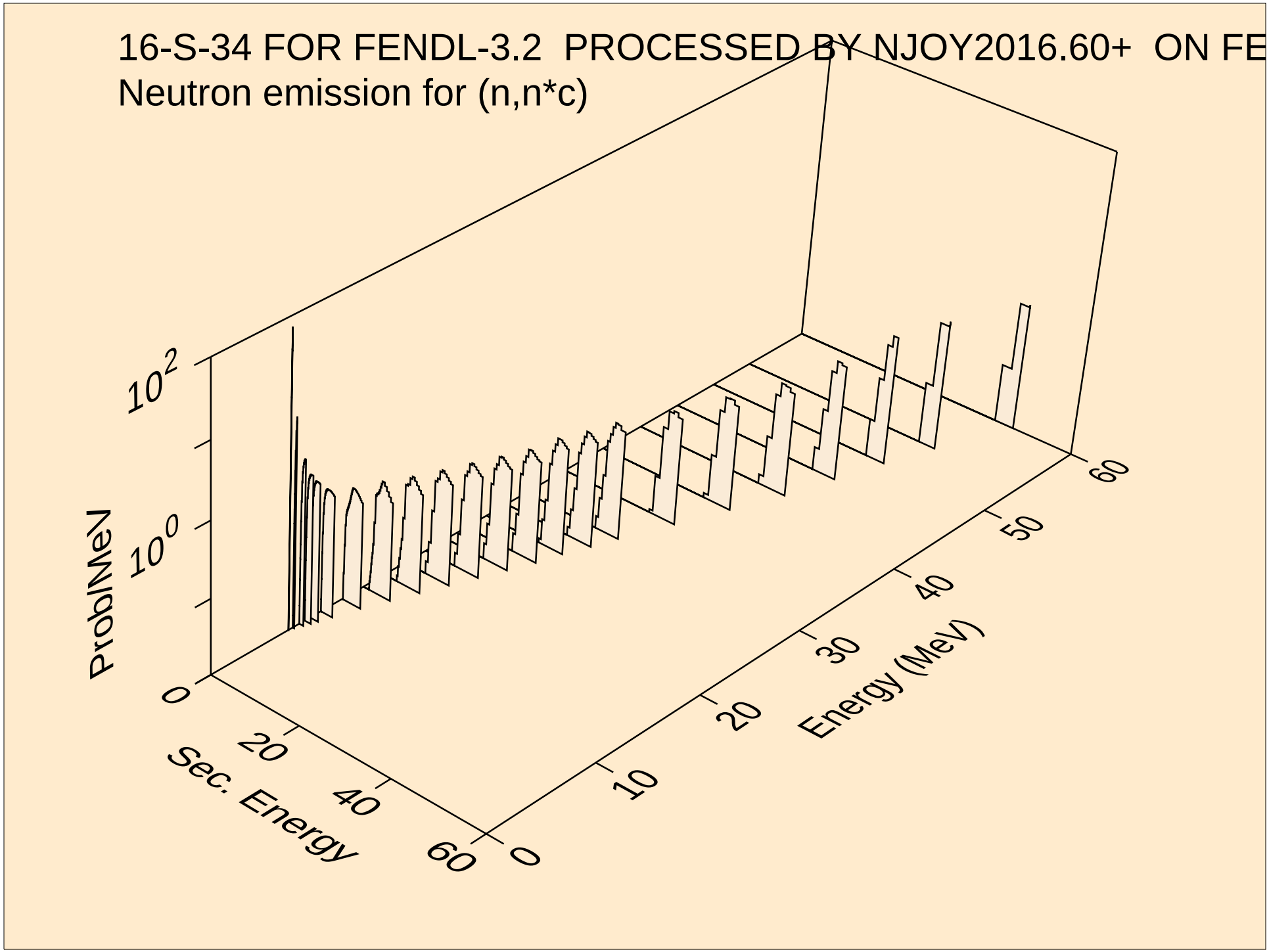

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,4n)
Prob/MeV
10-1
10-3
0
10
20
30
35
40
45
50
55
60
Sec. Energy
Energy (MeV)

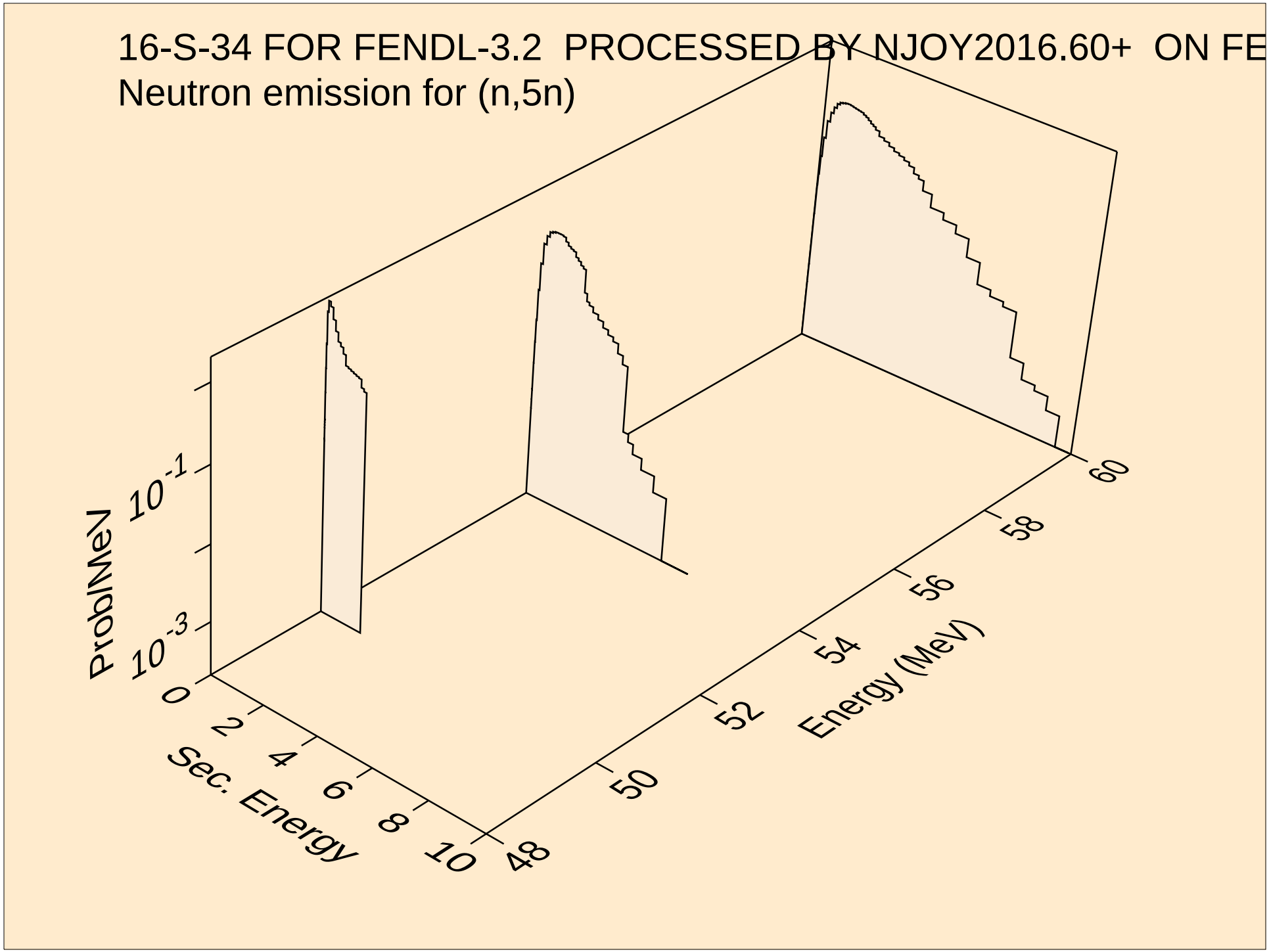

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2np)
Prob/MeV
10^{0}
10^{-2}
0
10
20
30
40
Sec. Energy
20
25
30
35
40
45
50
55
60
Energy (MeV)

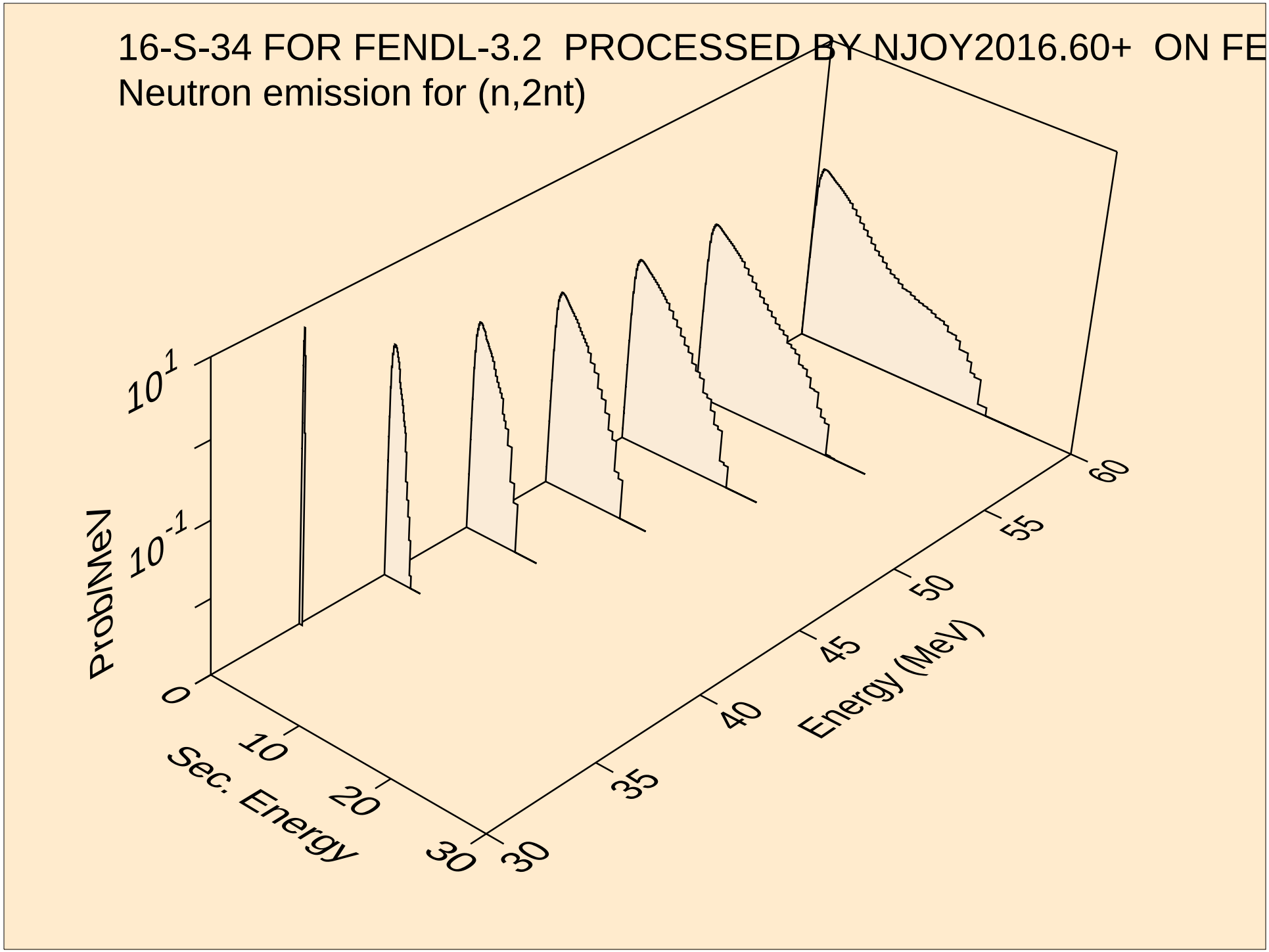

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3np)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

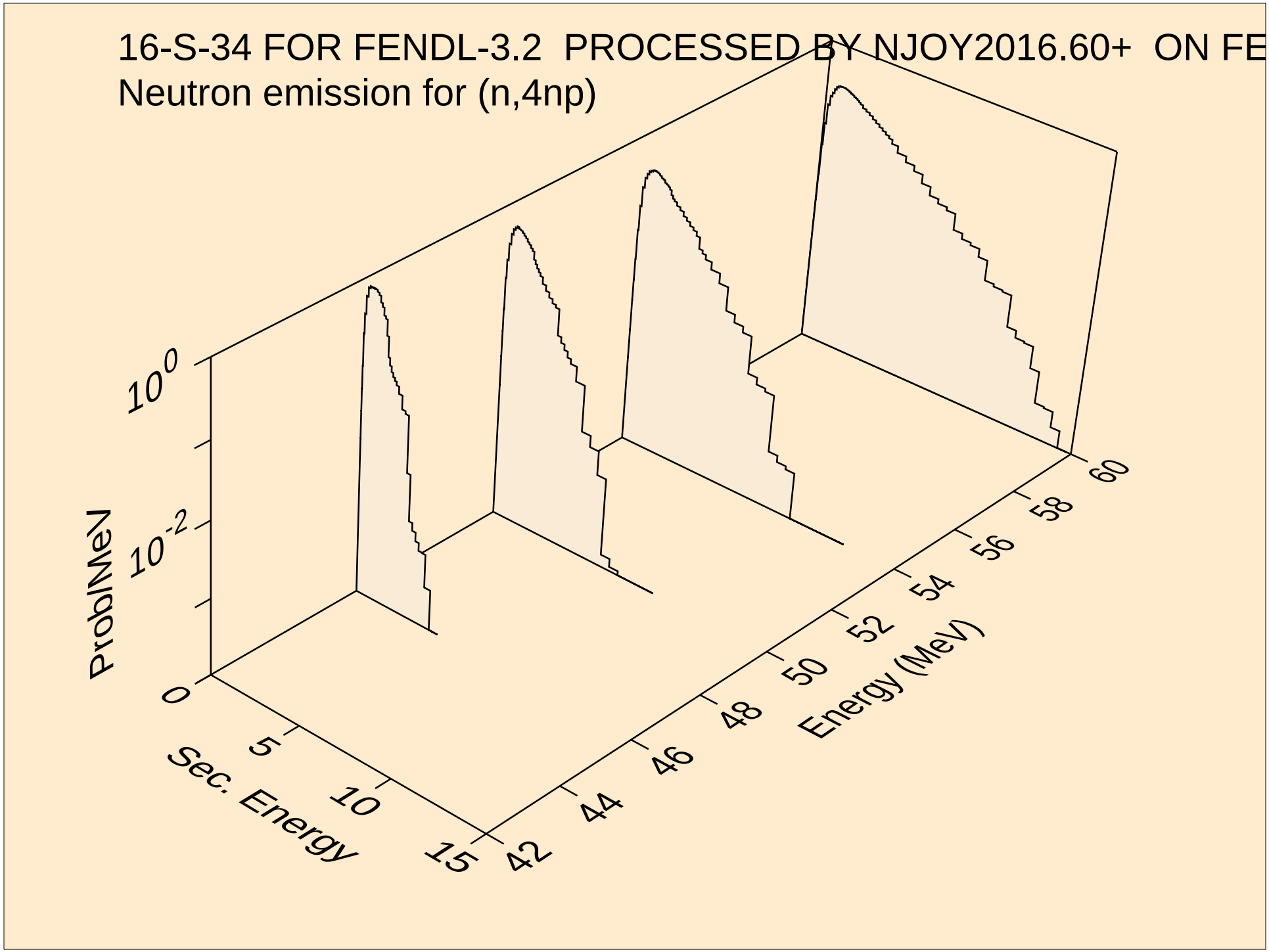

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2np)
Prob/MeV
10-1
10-3
0
10
20
30
40
Sec. Energy
20
25
30
35
40
45
50
55
60
Energy (MeV)

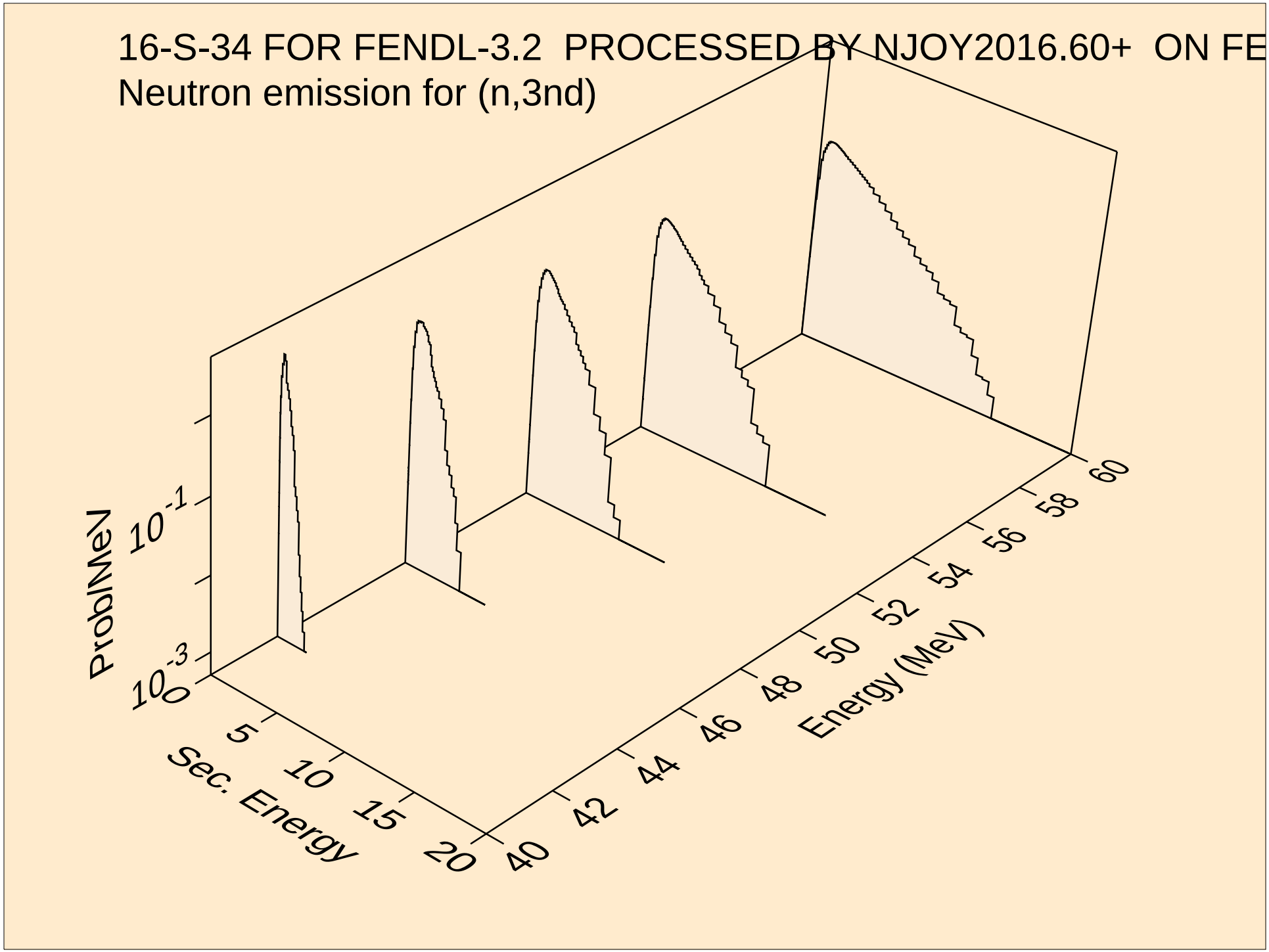

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,npa)
Prob/MeV
10^{0}
10^{-2}
0
10
20
30
Sec. Energy
20
25
30
35
40
45
50
55
60
Energy (MeV)

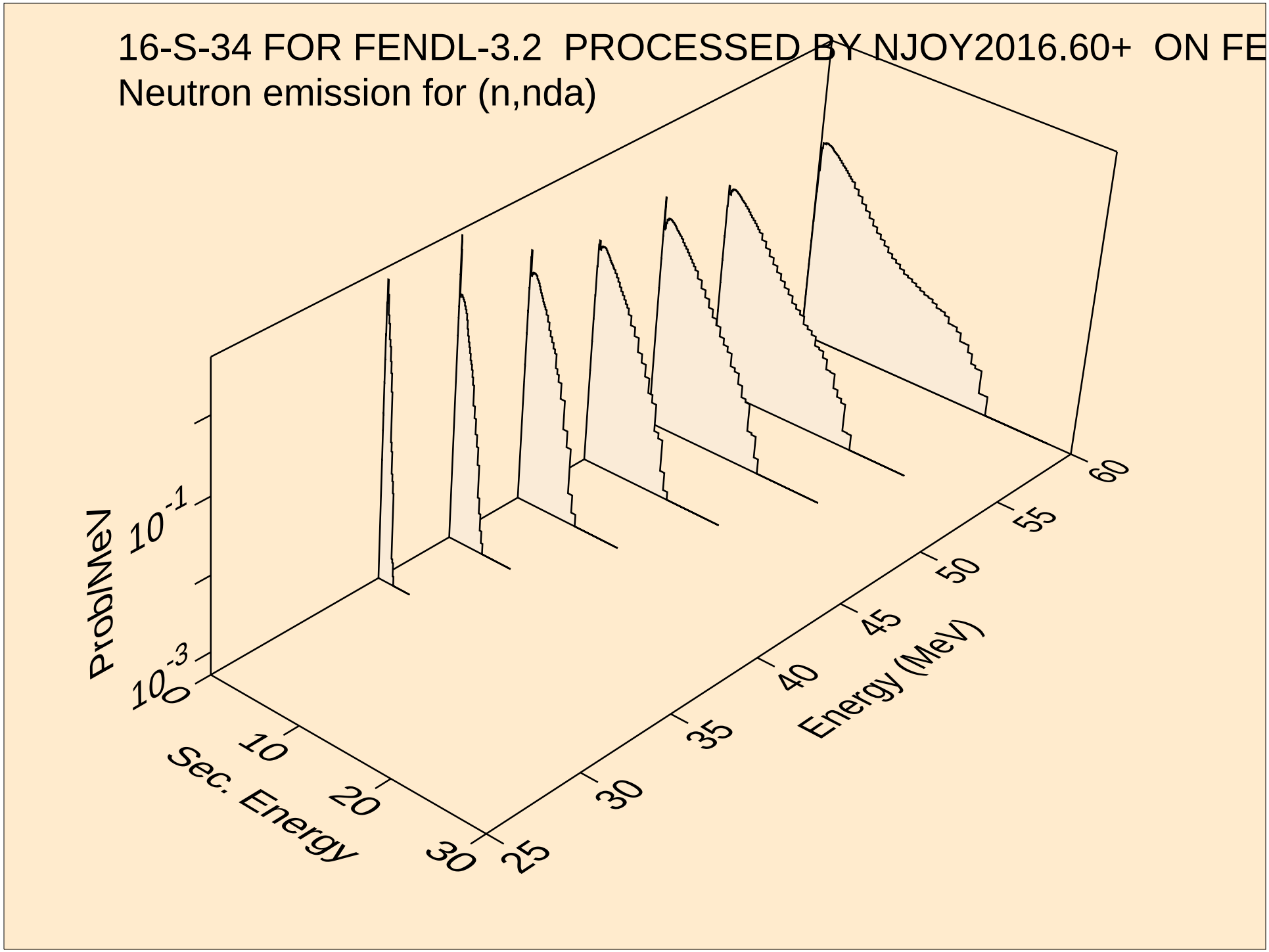

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n*c)
Prob/MeV
10^2
10^0
0
20
40
60
Sec. Energy
0
10
20
30
40
50
60
Energy (MeV)

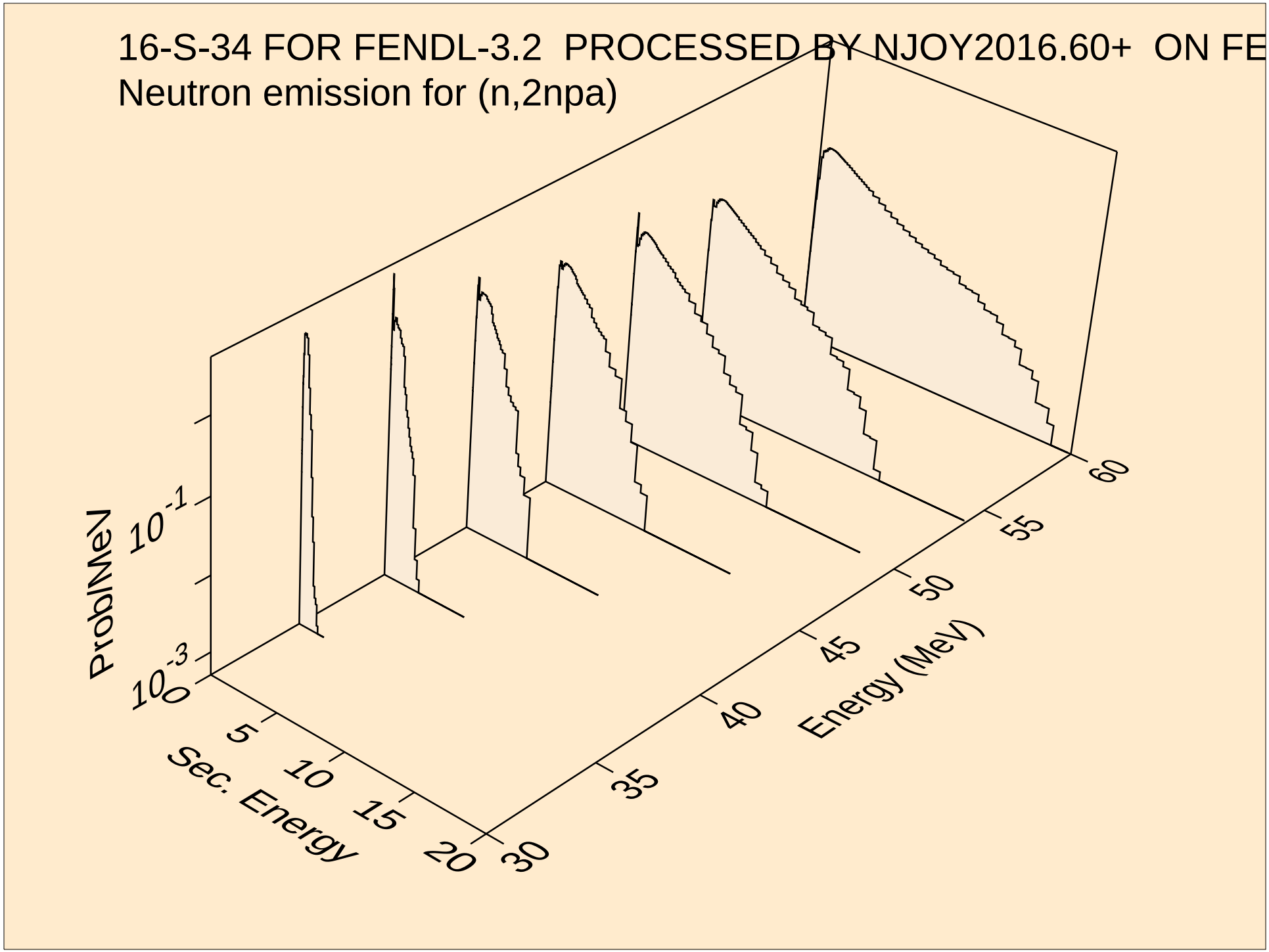

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,5n)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
48
50
52
54
56
58
60
Energy (MeV)

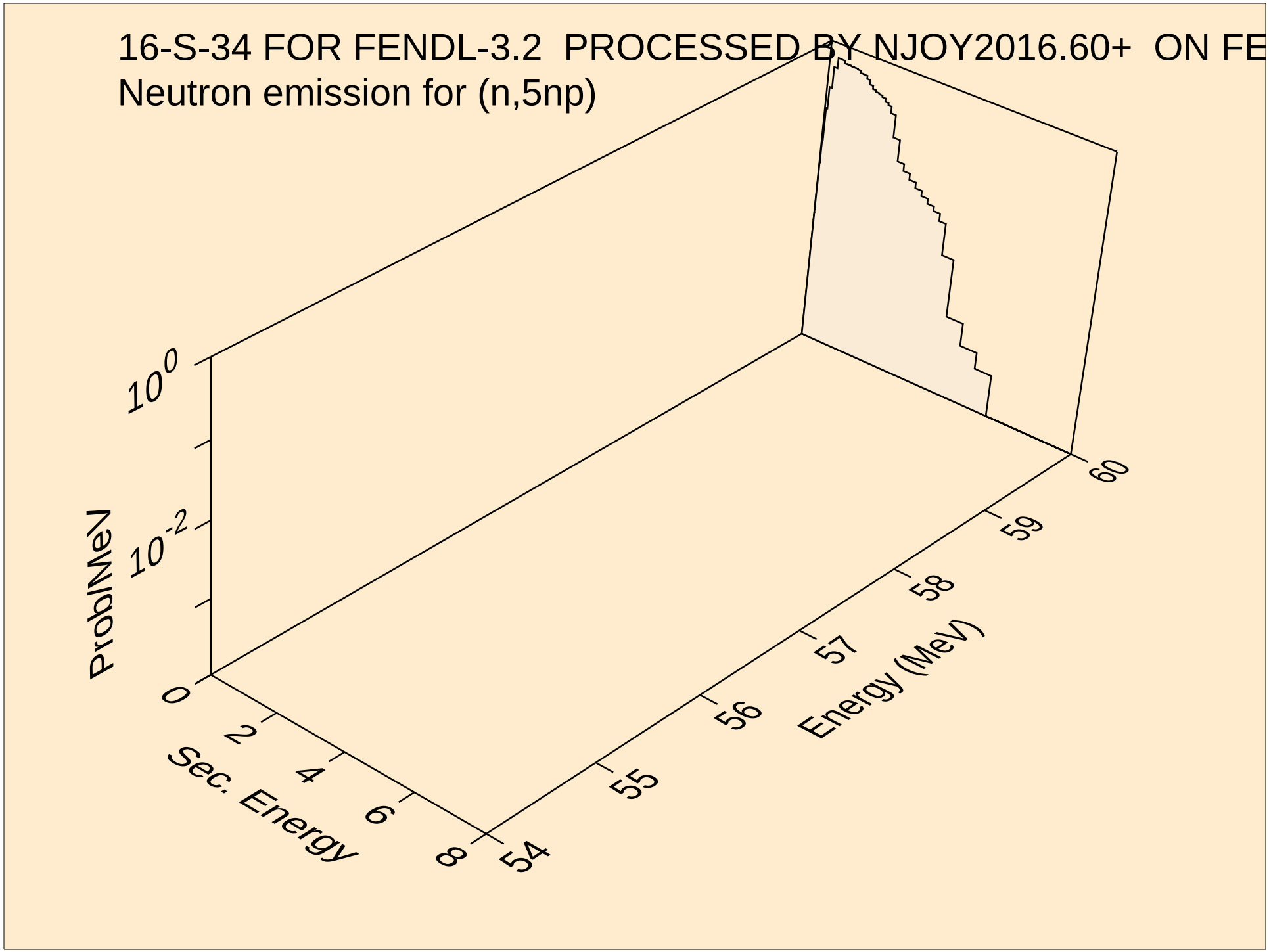

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2nt)
Prob/MeV
10^{1}
10^{-1}
0
10
20
30
Sec. Energy
30
35
40
45
50
55
60
Energy (MeV)

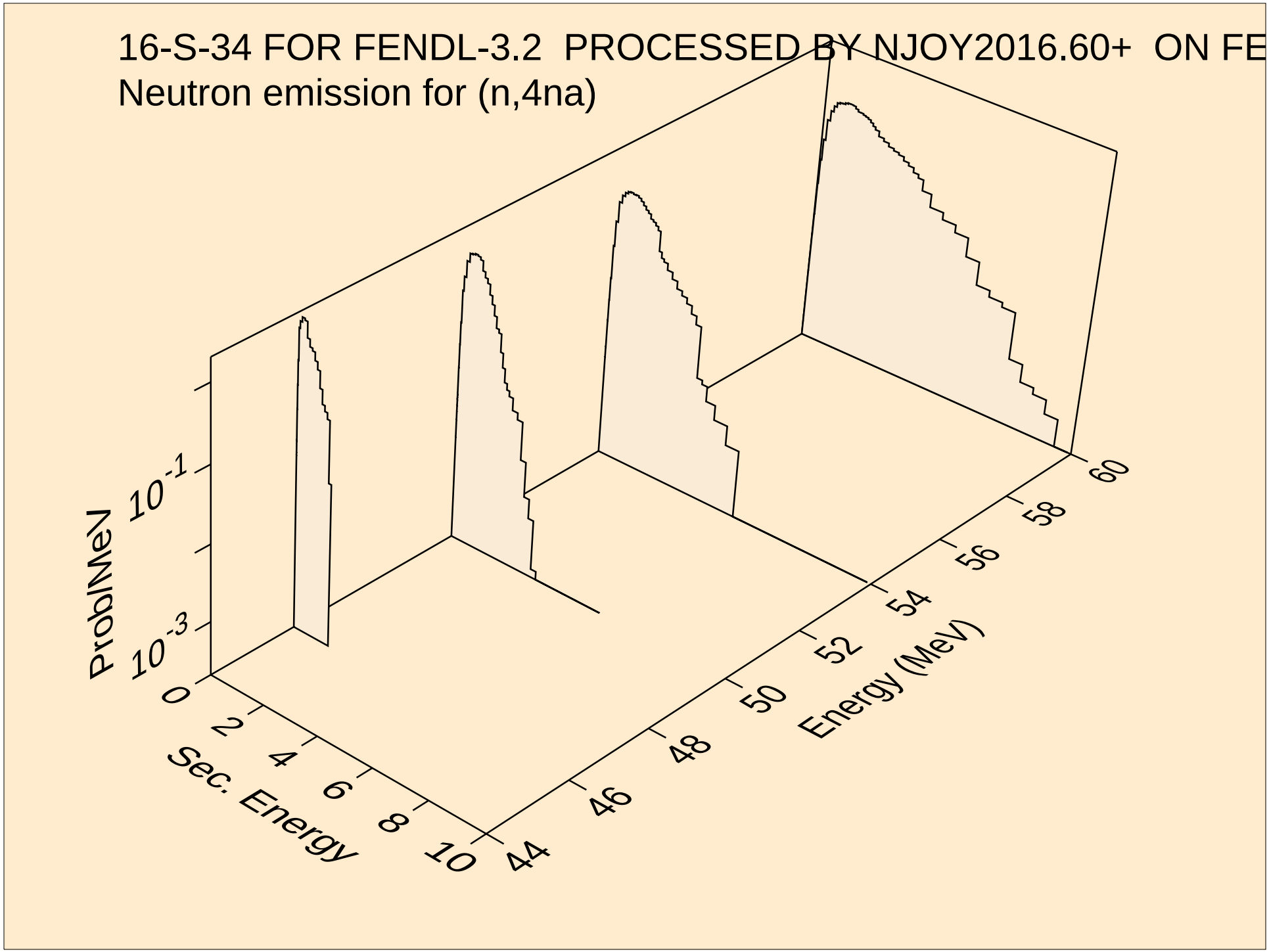

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,4np)
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
Sec. Energy
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

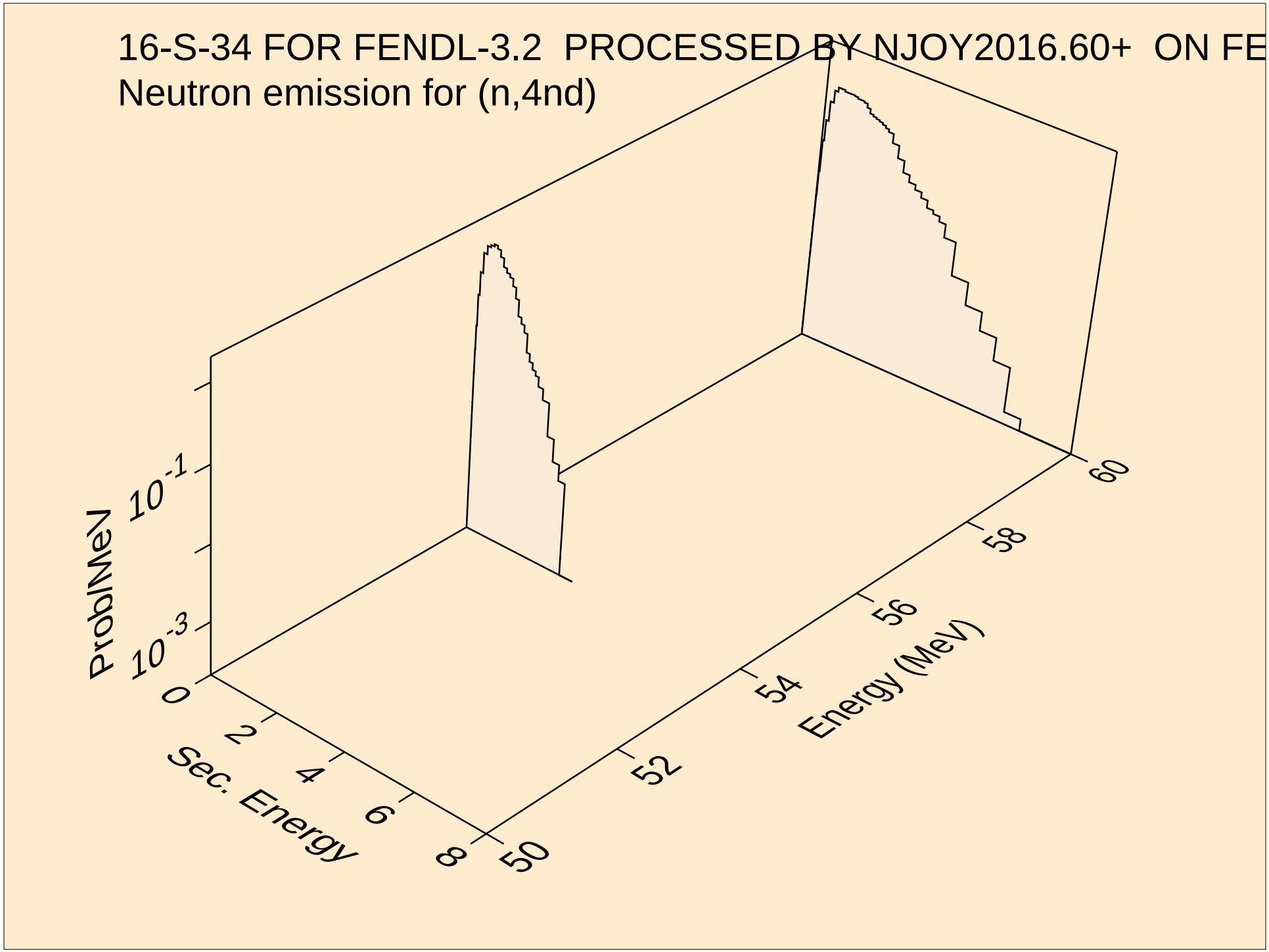

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3nd)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

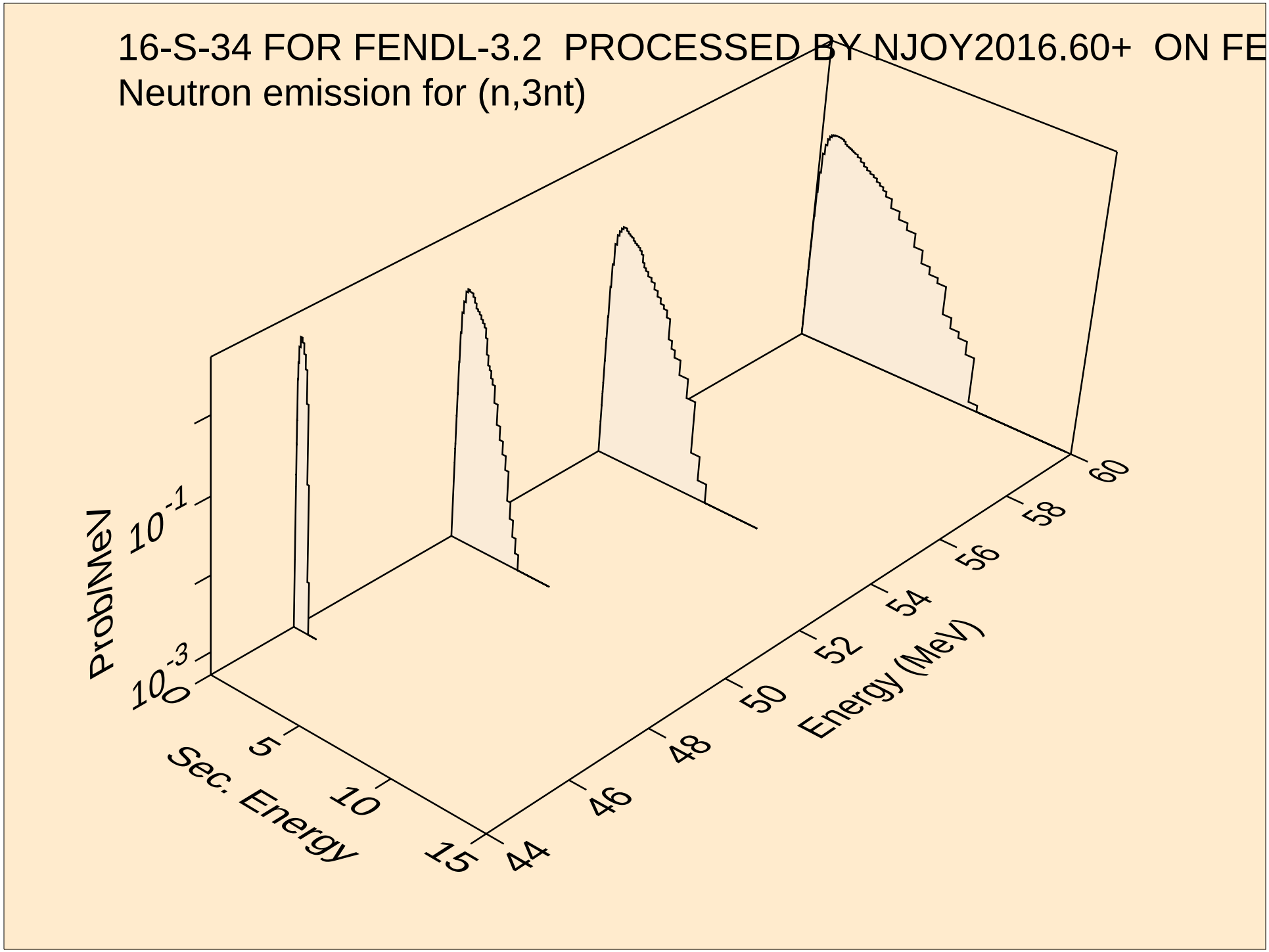

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,nda)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

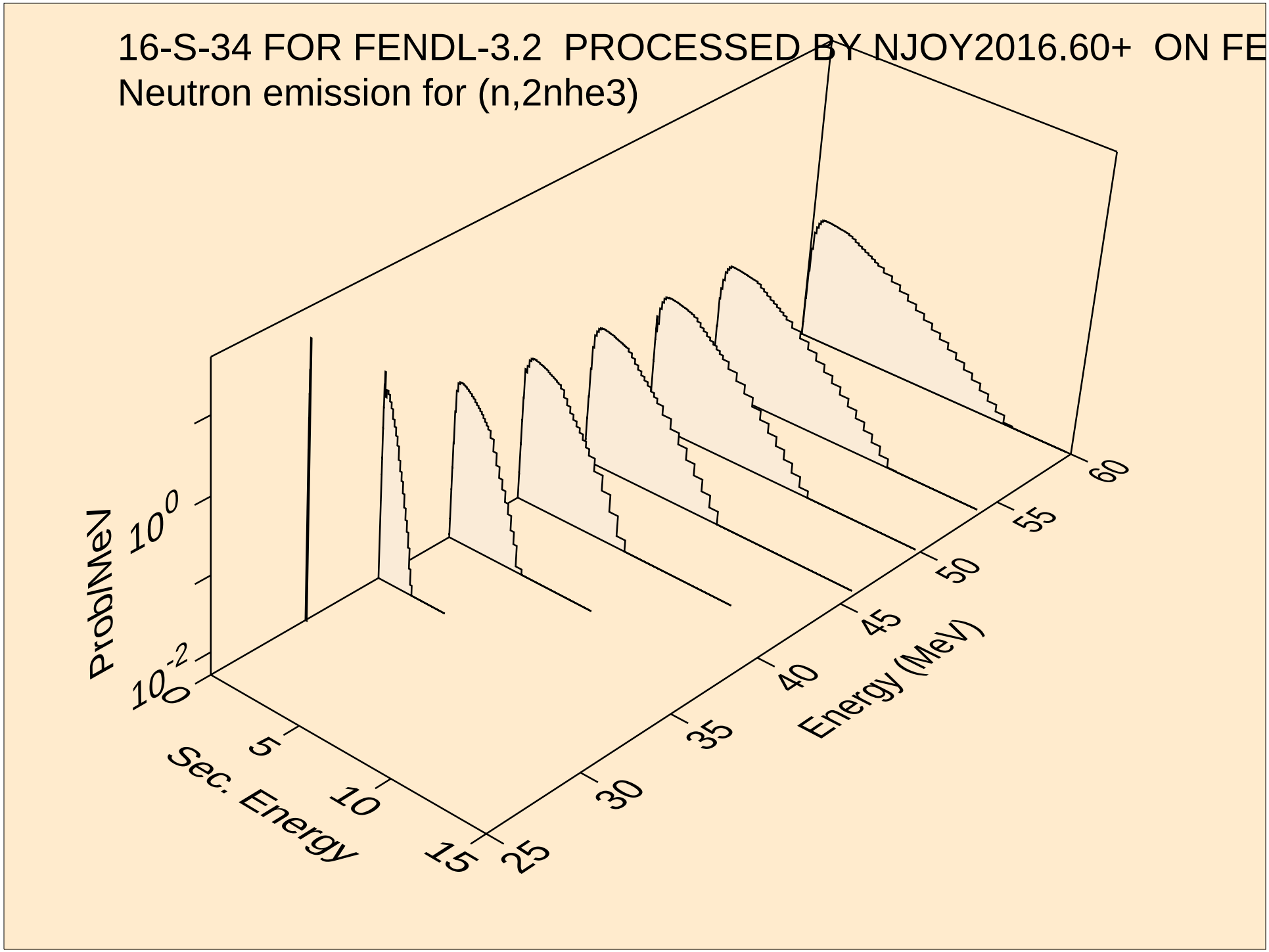

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2npa)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
30
35
40
45
50
55
60
Energy (MeV)

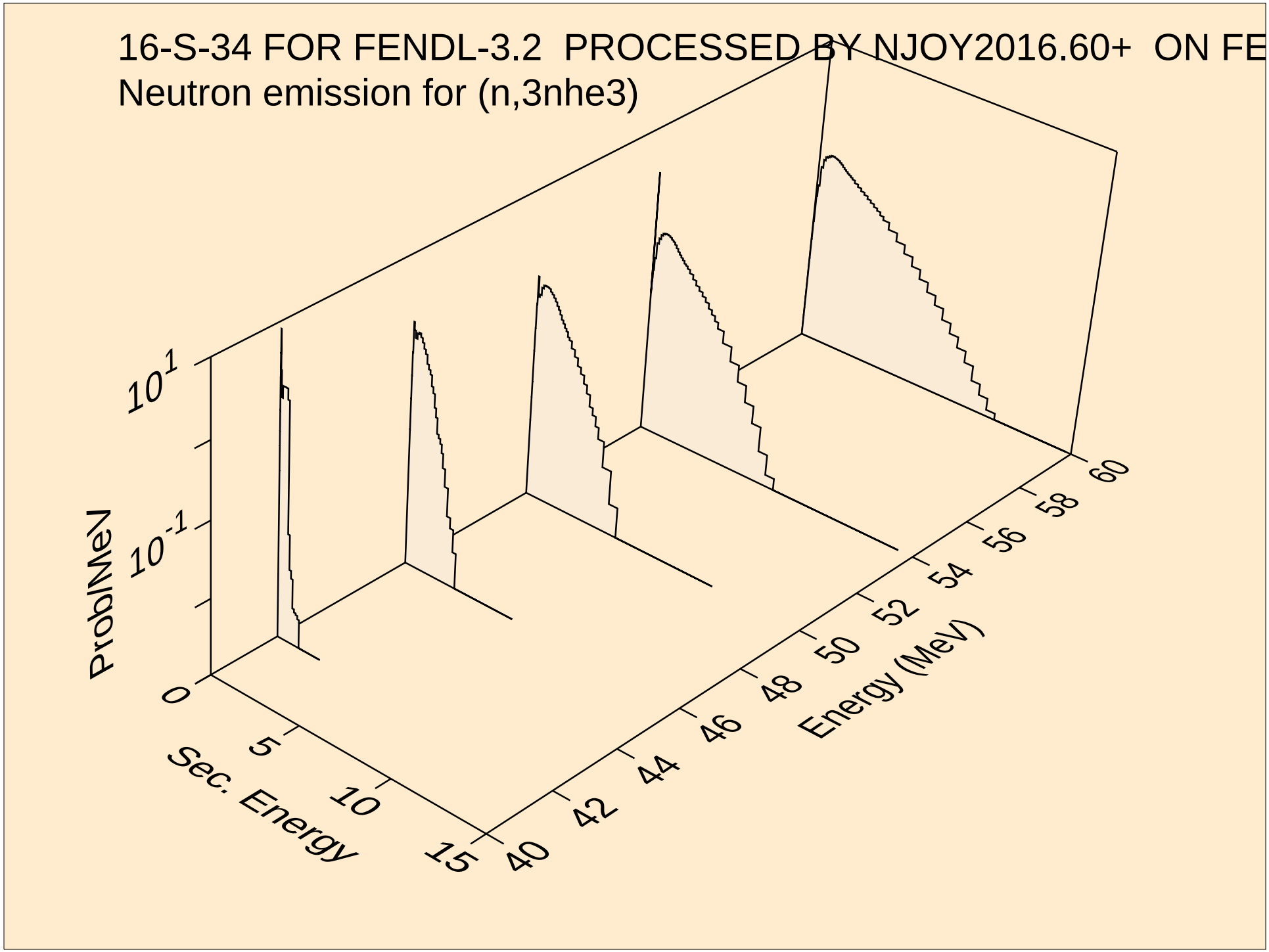

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,5np)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
8
Sec. Energy
54
55
56
57
58
59
60
Energy (MeV)

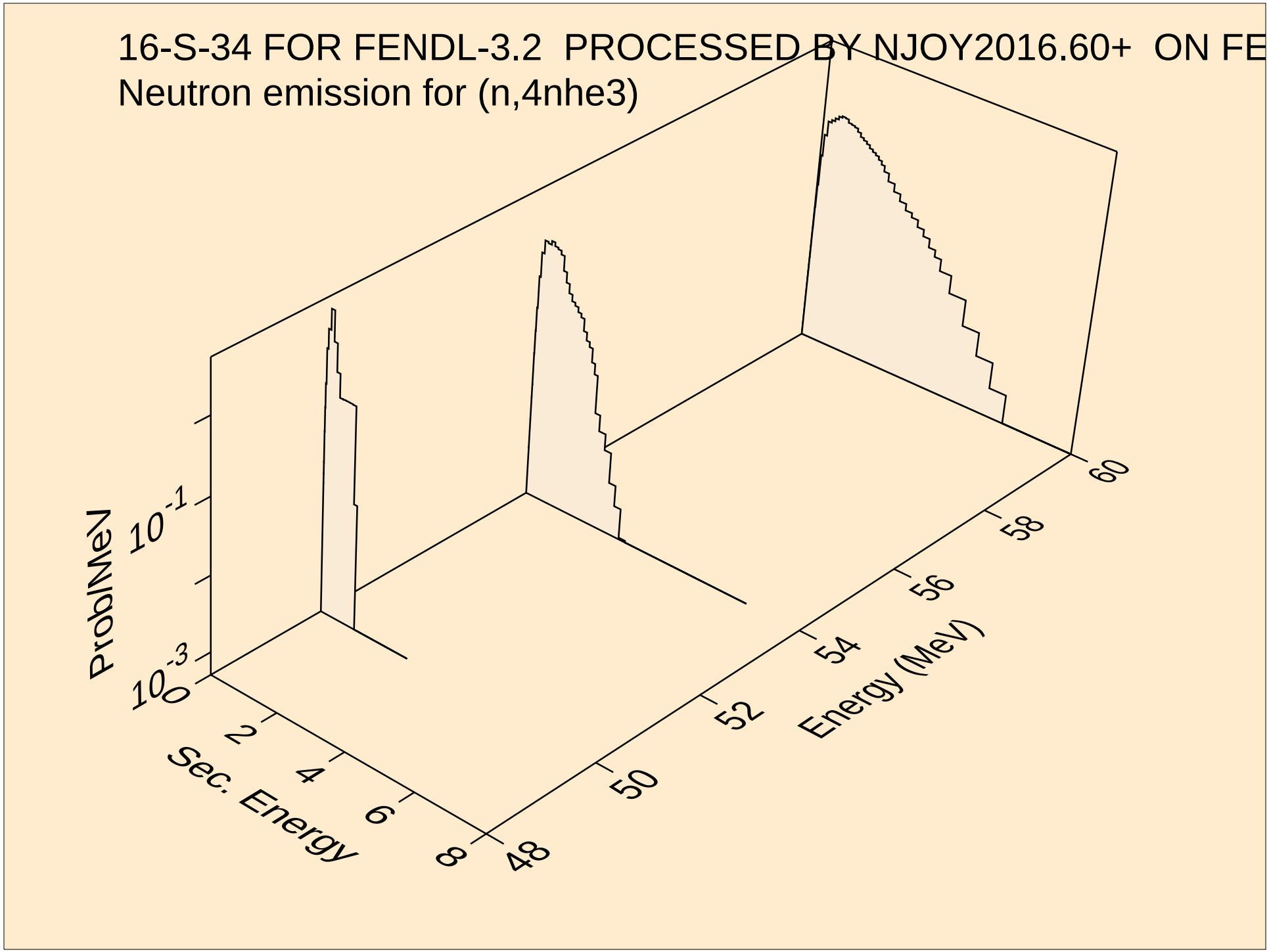

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,4na)
Prob/MeV
10-1
10-3
0
2
4
6
8
10
Sec. Energy
44
46
48
50
52
54
56
58
60
Energy (MeV)

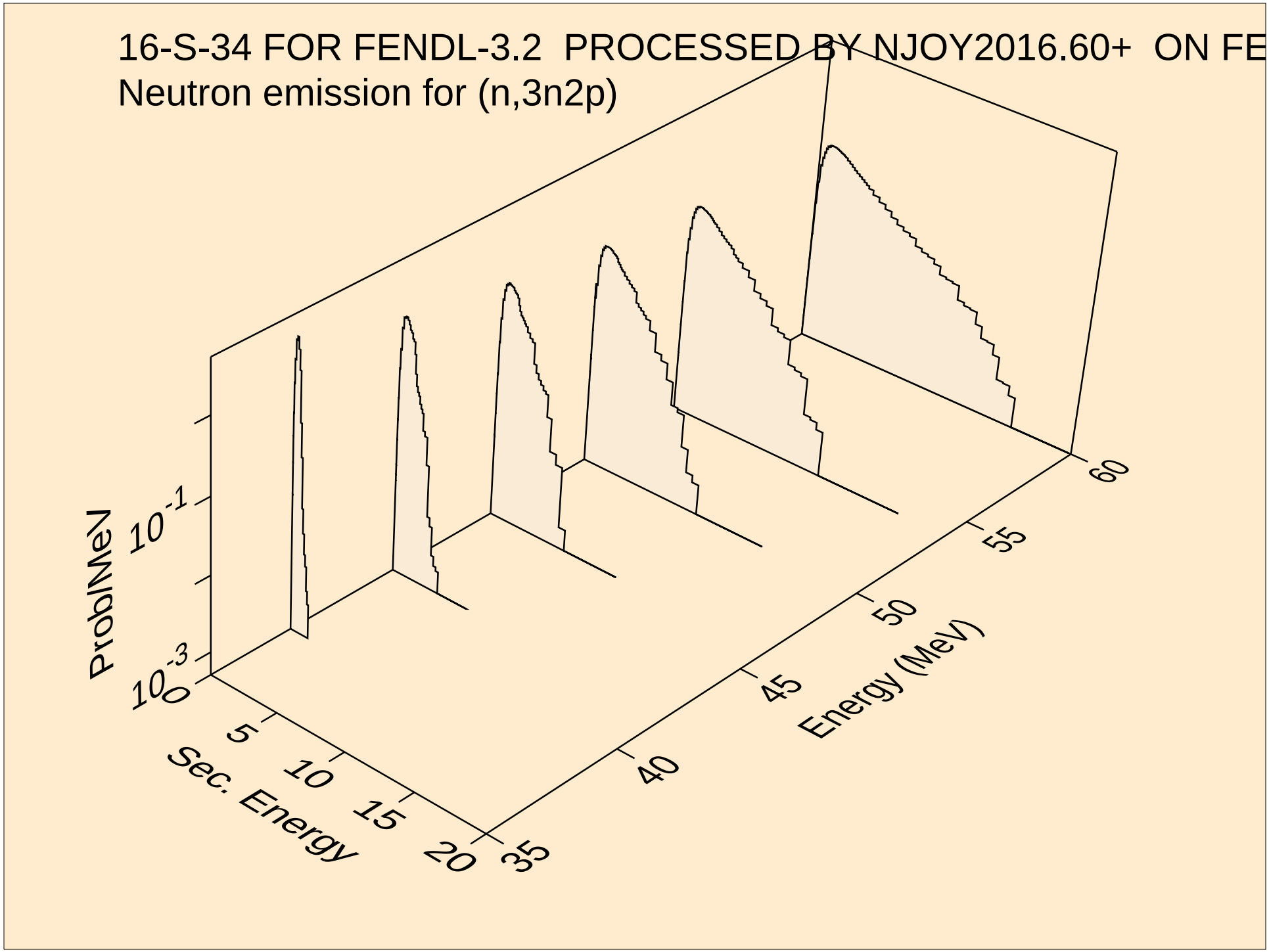

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,4nd)
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
50
52
54
56
58
60
Energy (MeV)

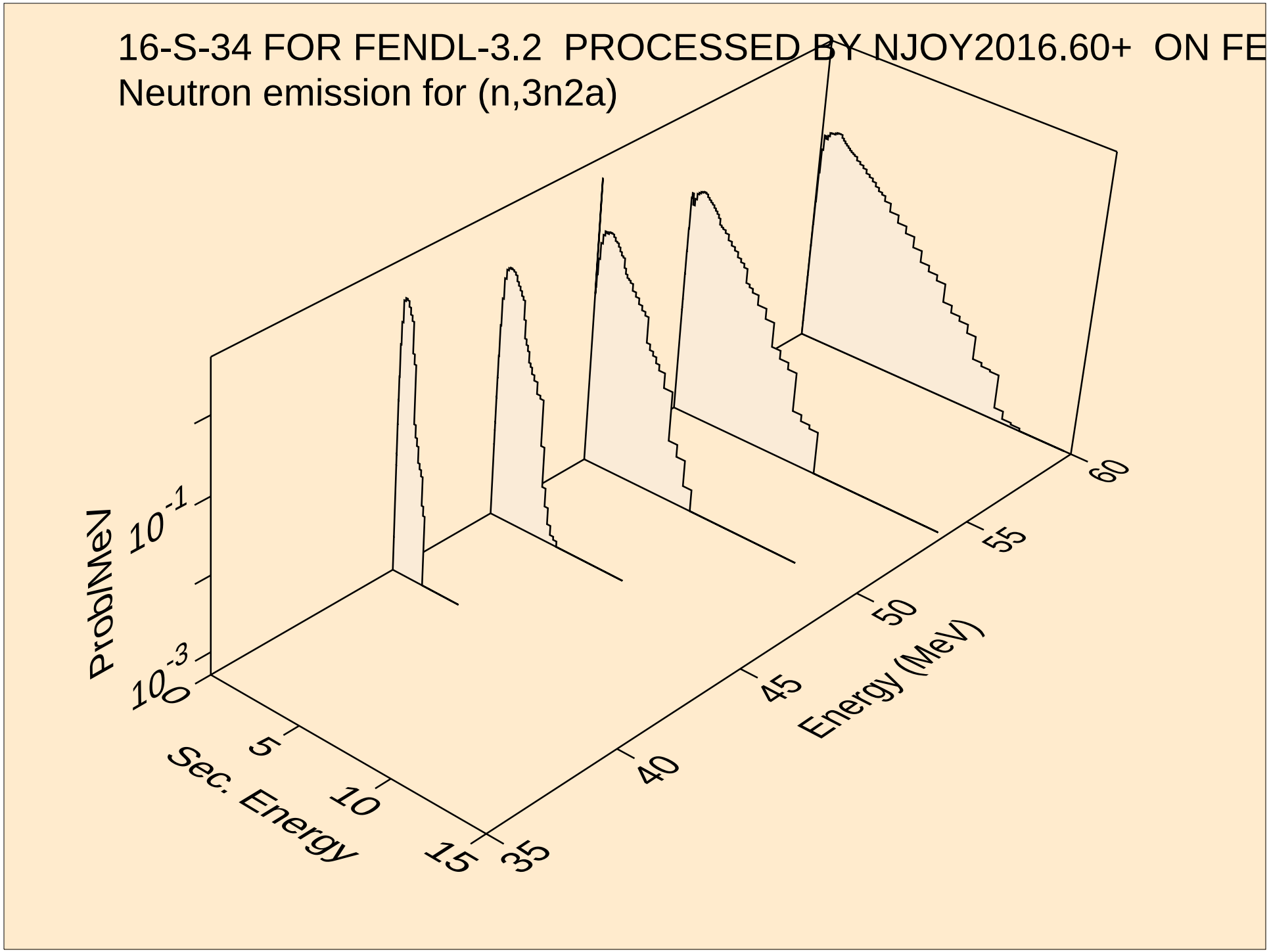

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3nt)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
44
46
48
50
52
54
56
58
60
Energy (MeV)

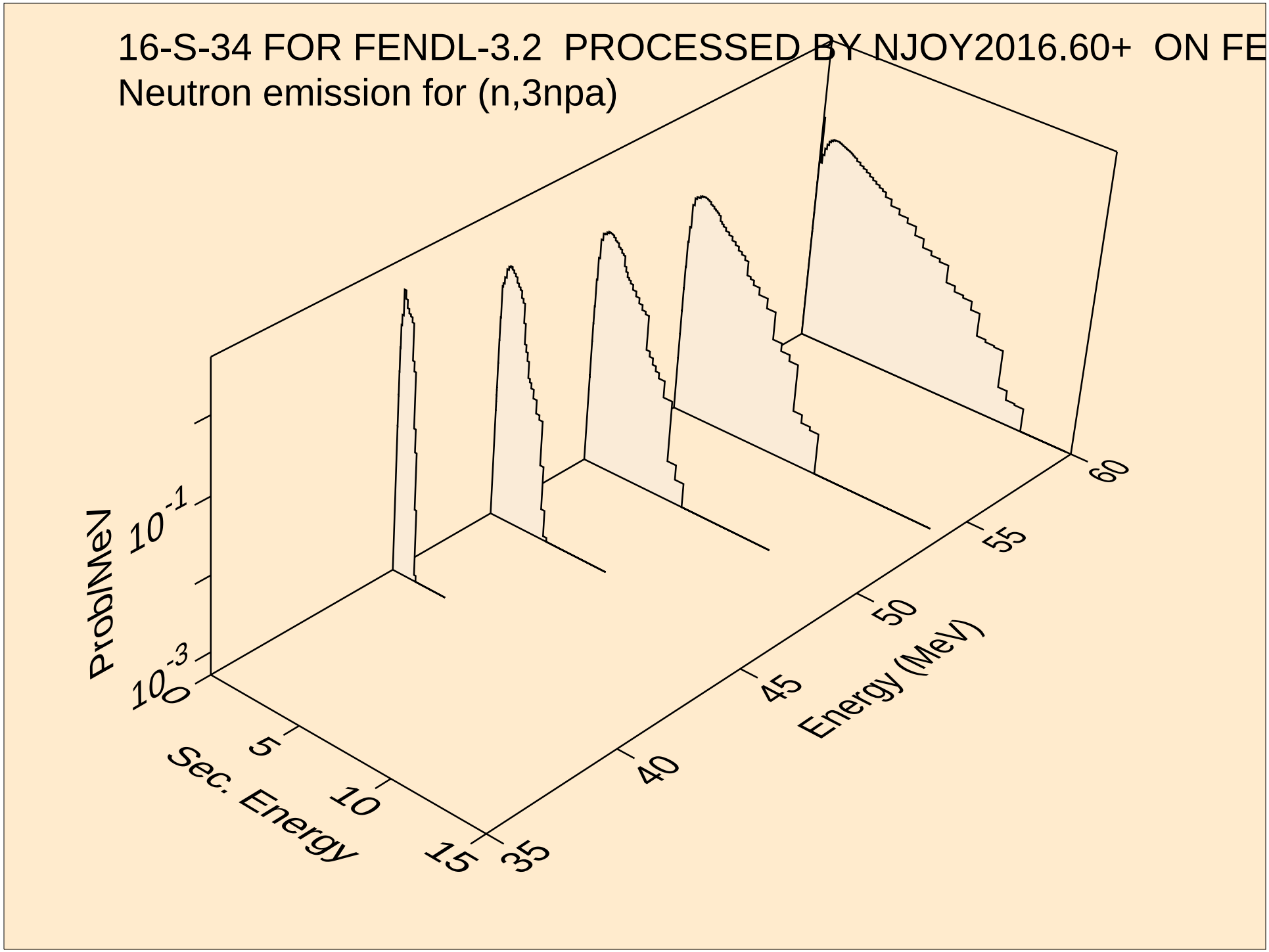

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2nhe3)
Prob/MeV
10^{0}
10^{-2}
0
5
10
15
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

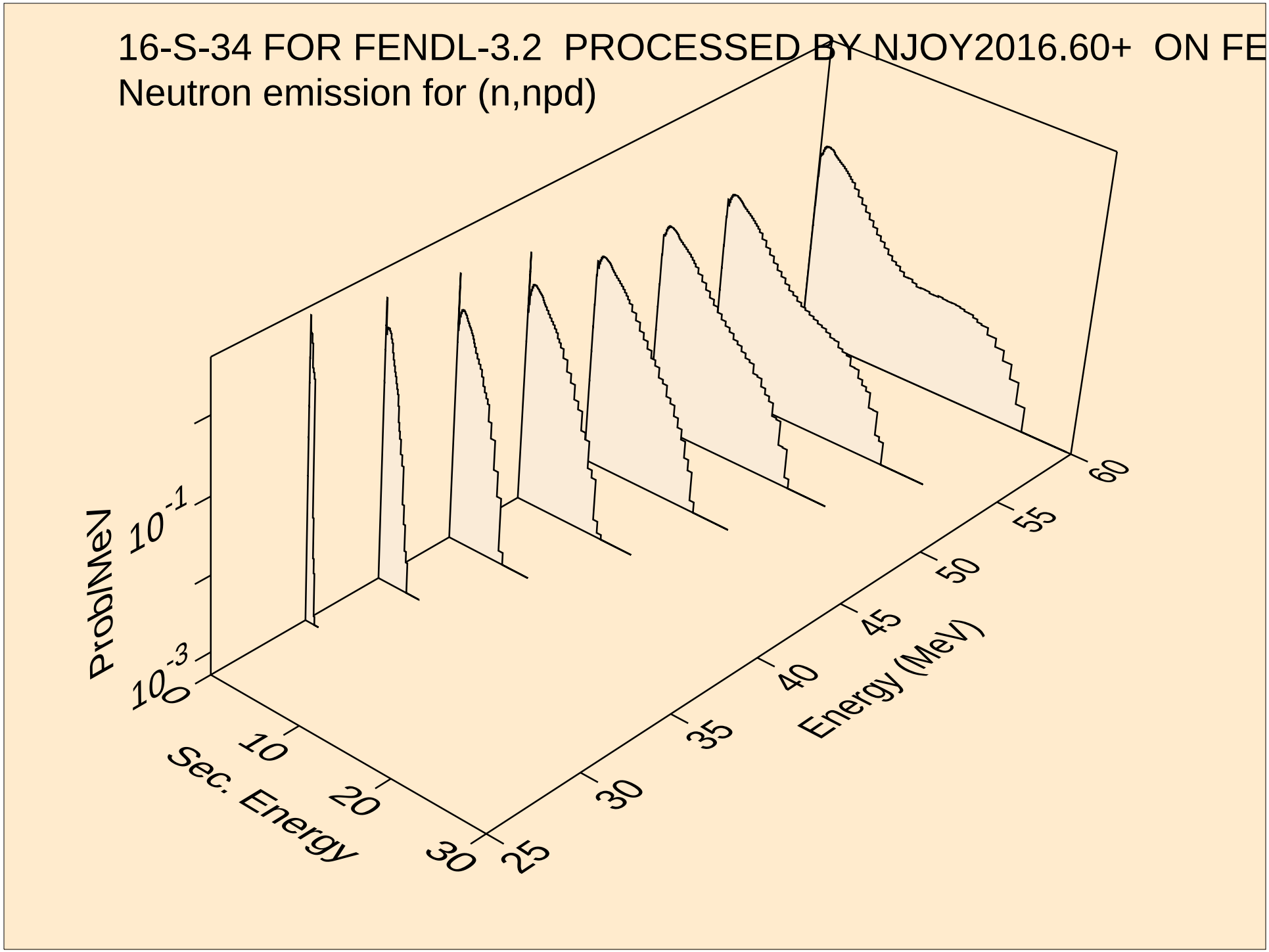

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3nhe3)
Prob/MeV
10^{1}
10^{-1}
0
5
10
15
Sec. Energy
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

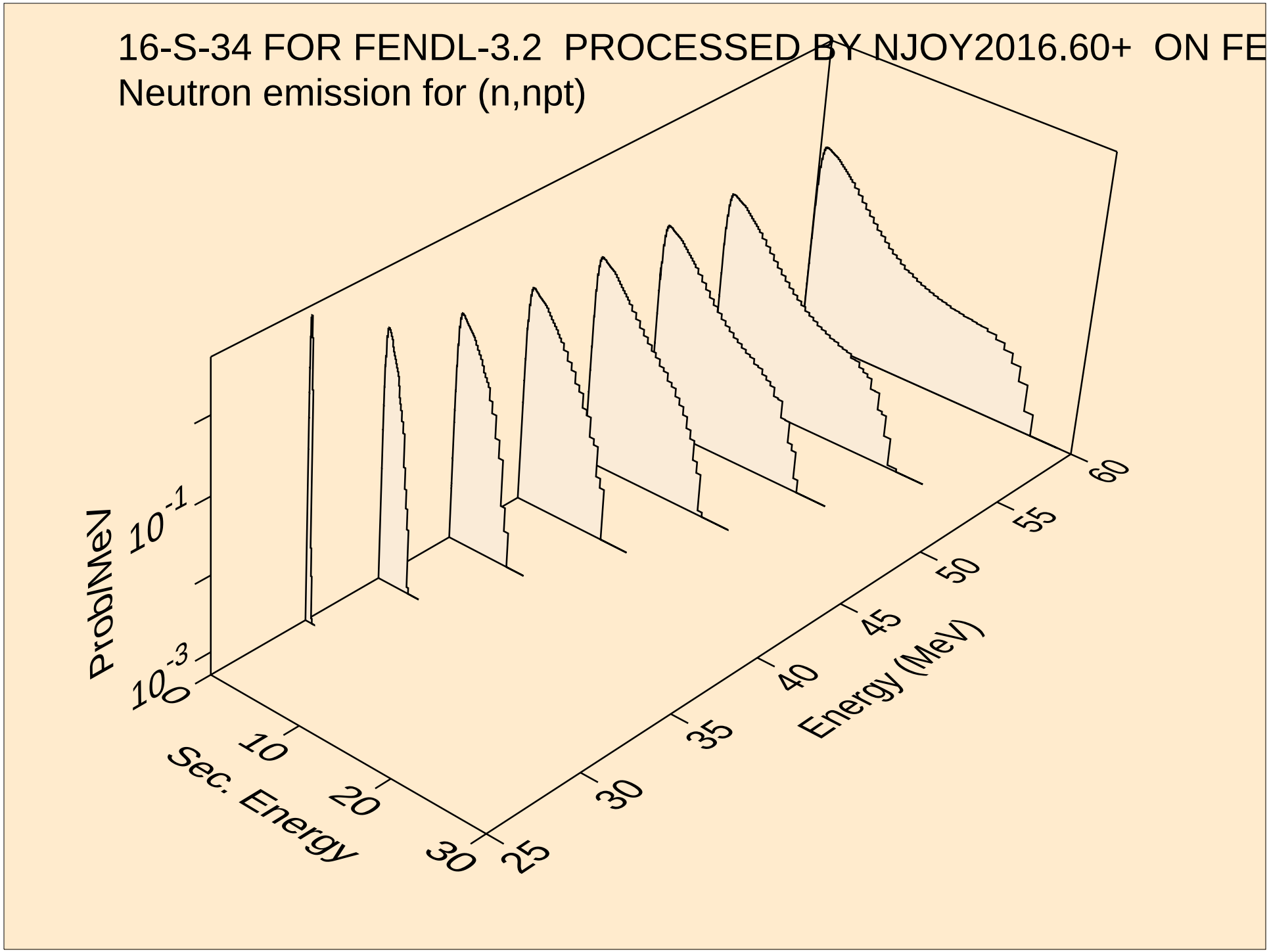

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,4nhe3)
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
48
50
52
54
56
58
60
Energy (MeV)

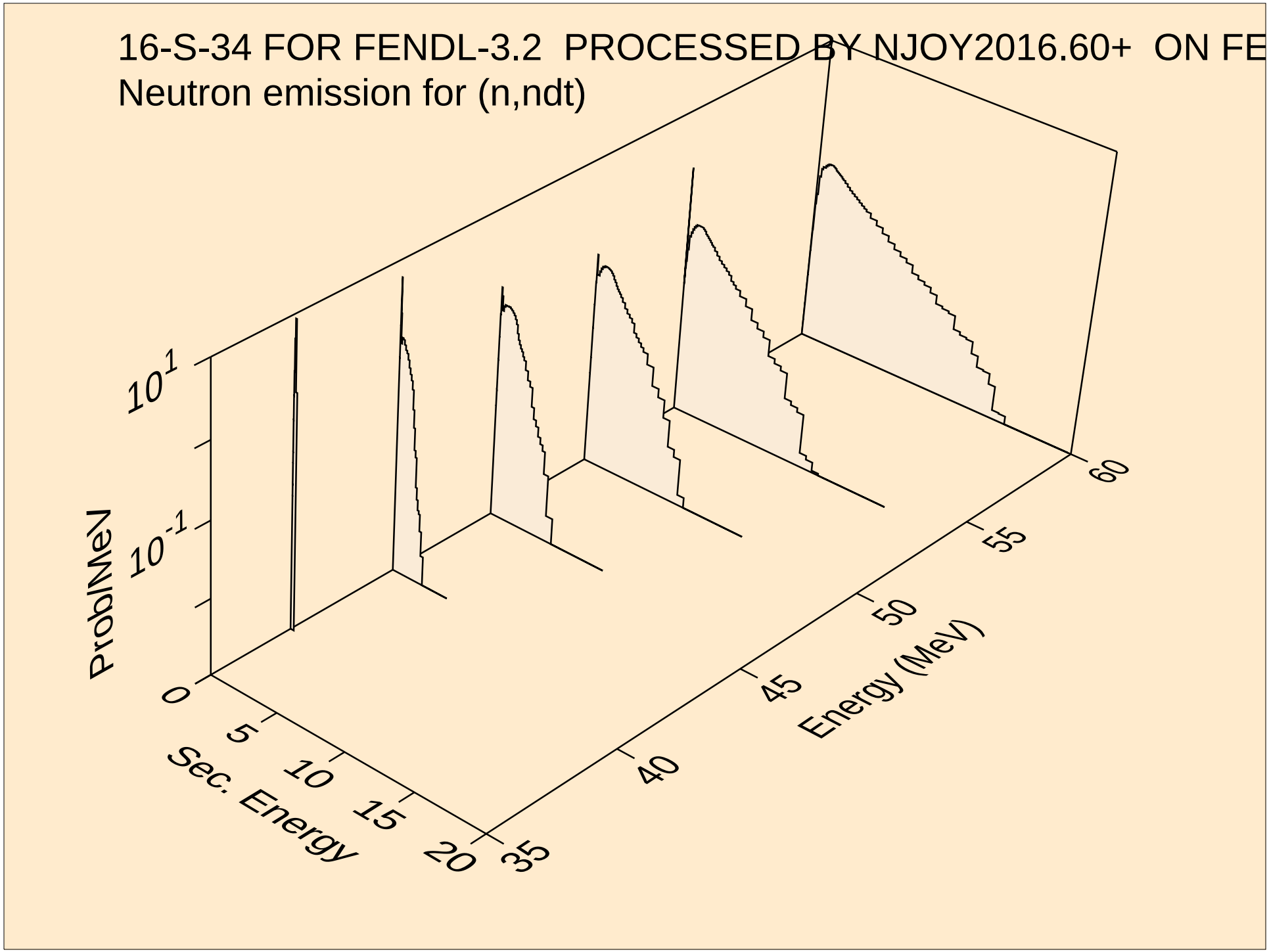

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3n2p)
Prob/MeV
10-1
10-3
0
5
10
15
20
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

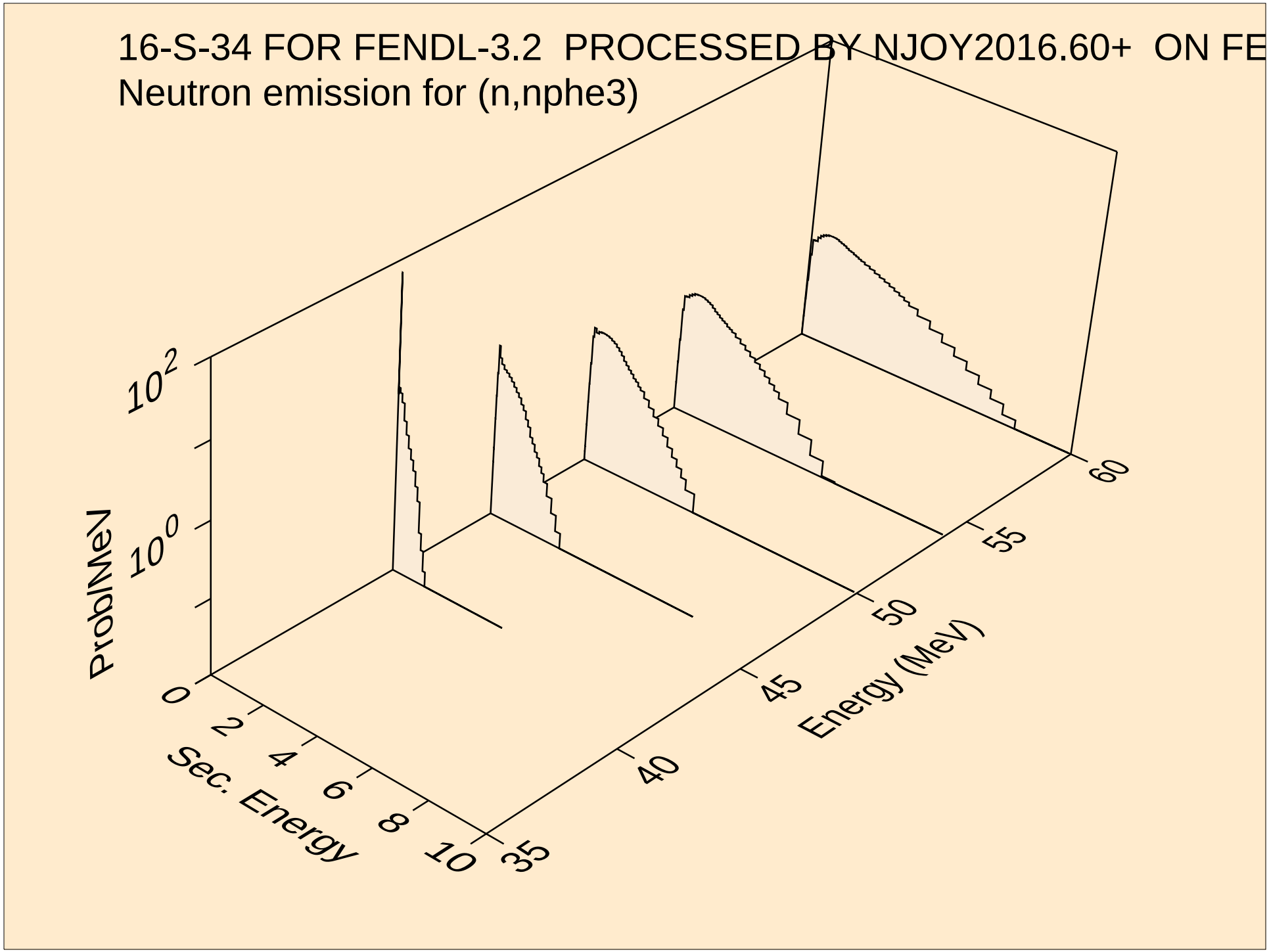

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3n2a)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

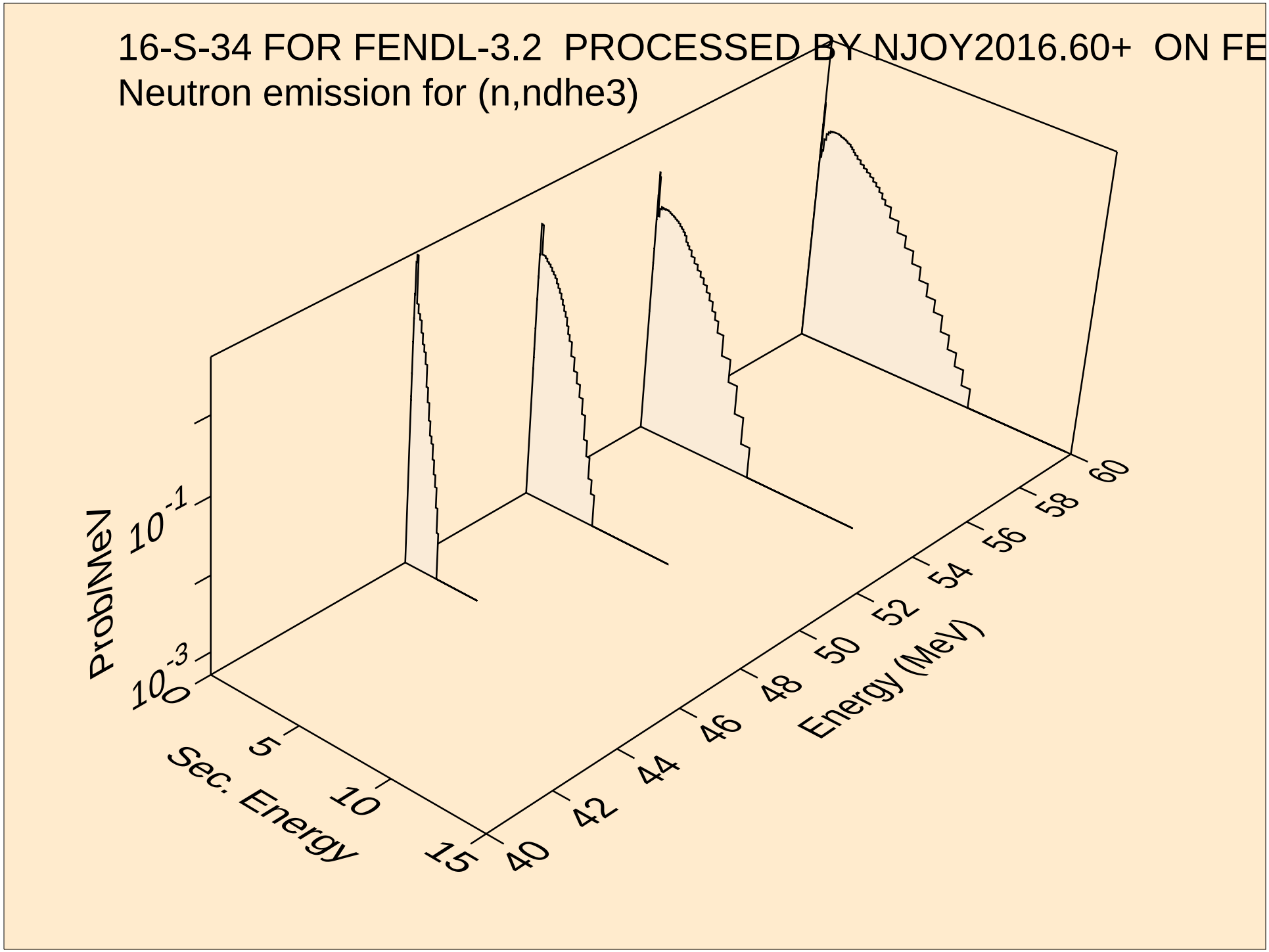

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3npa)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

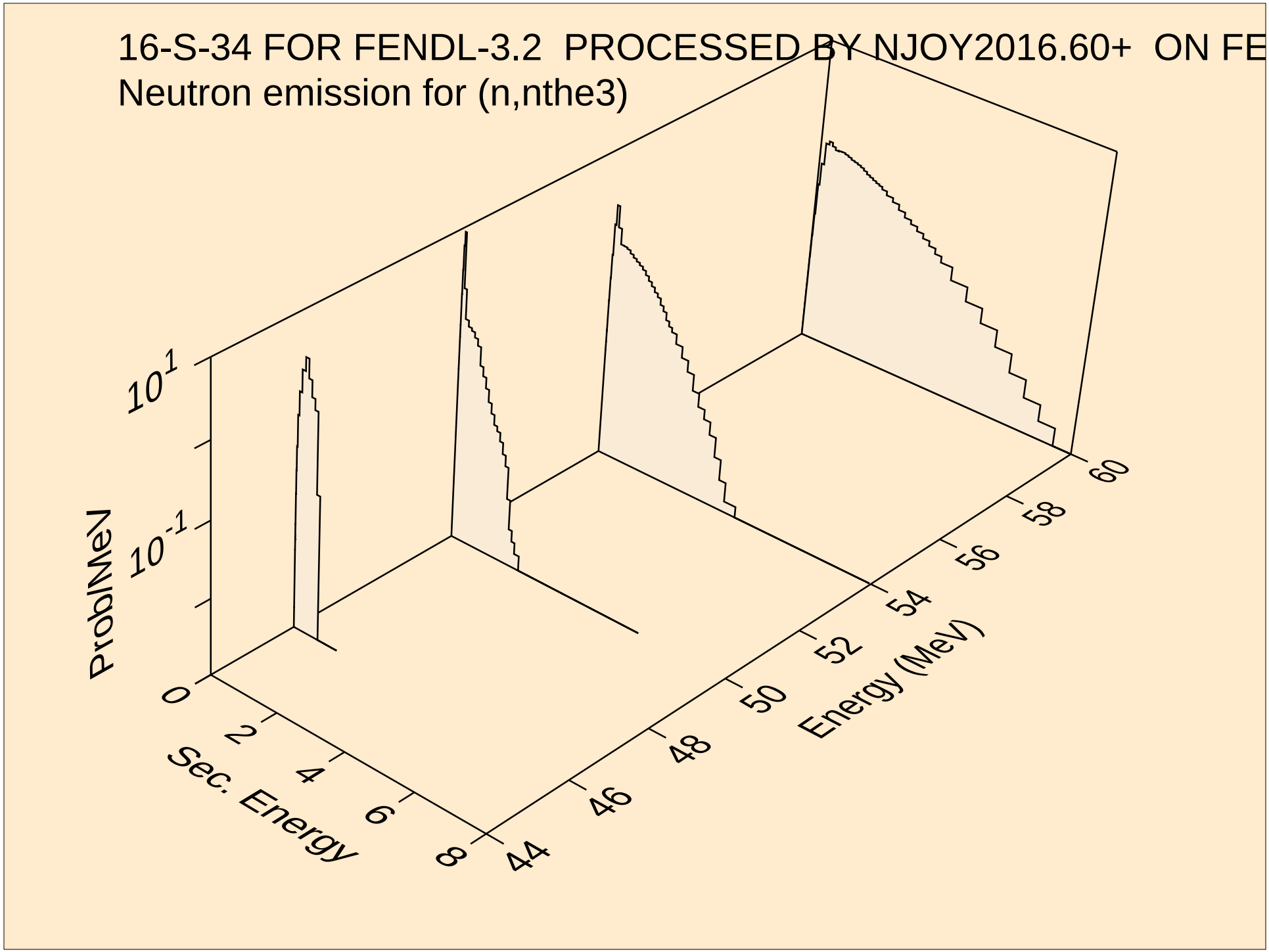

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,npd)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

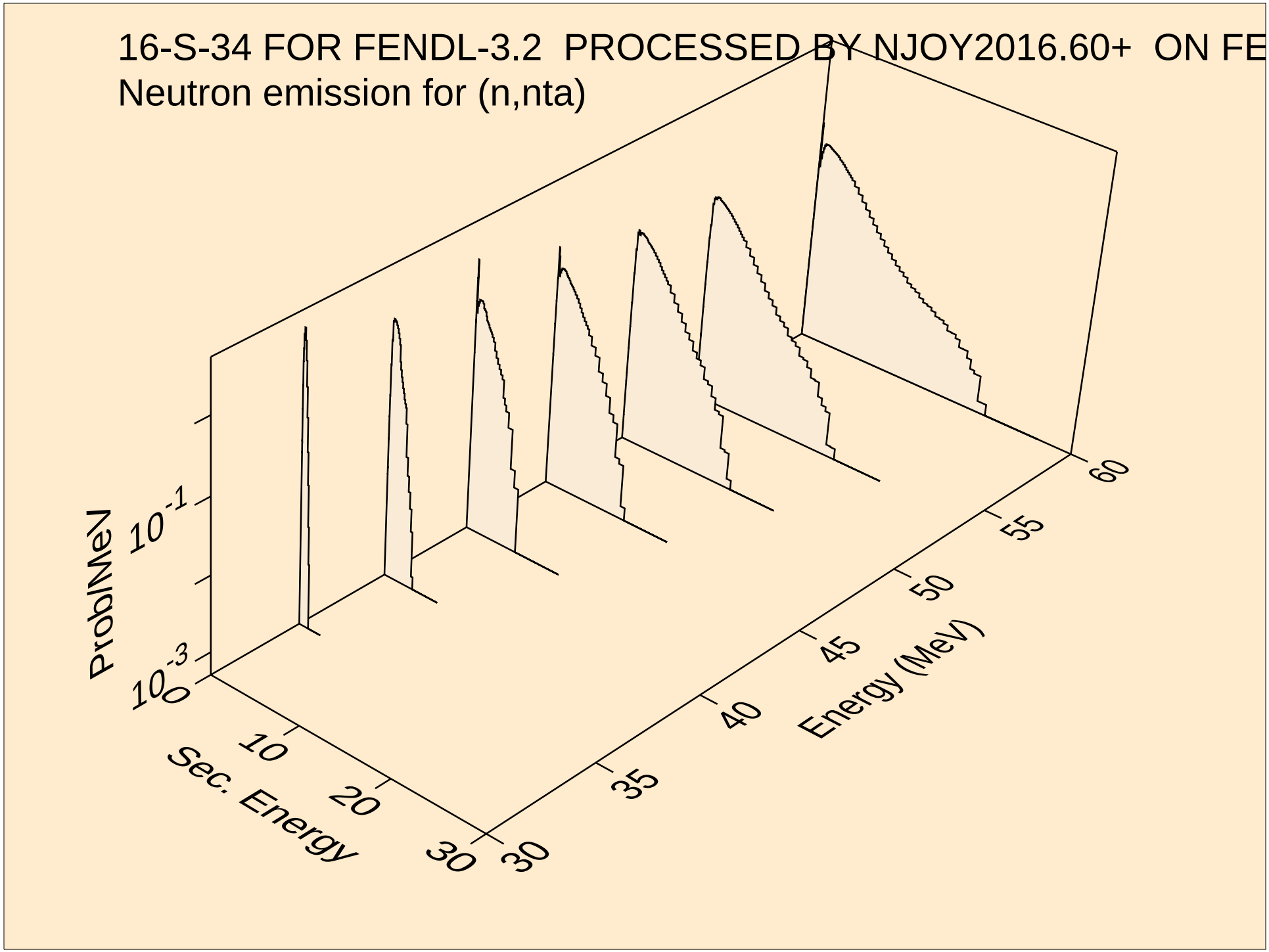

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,npt)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

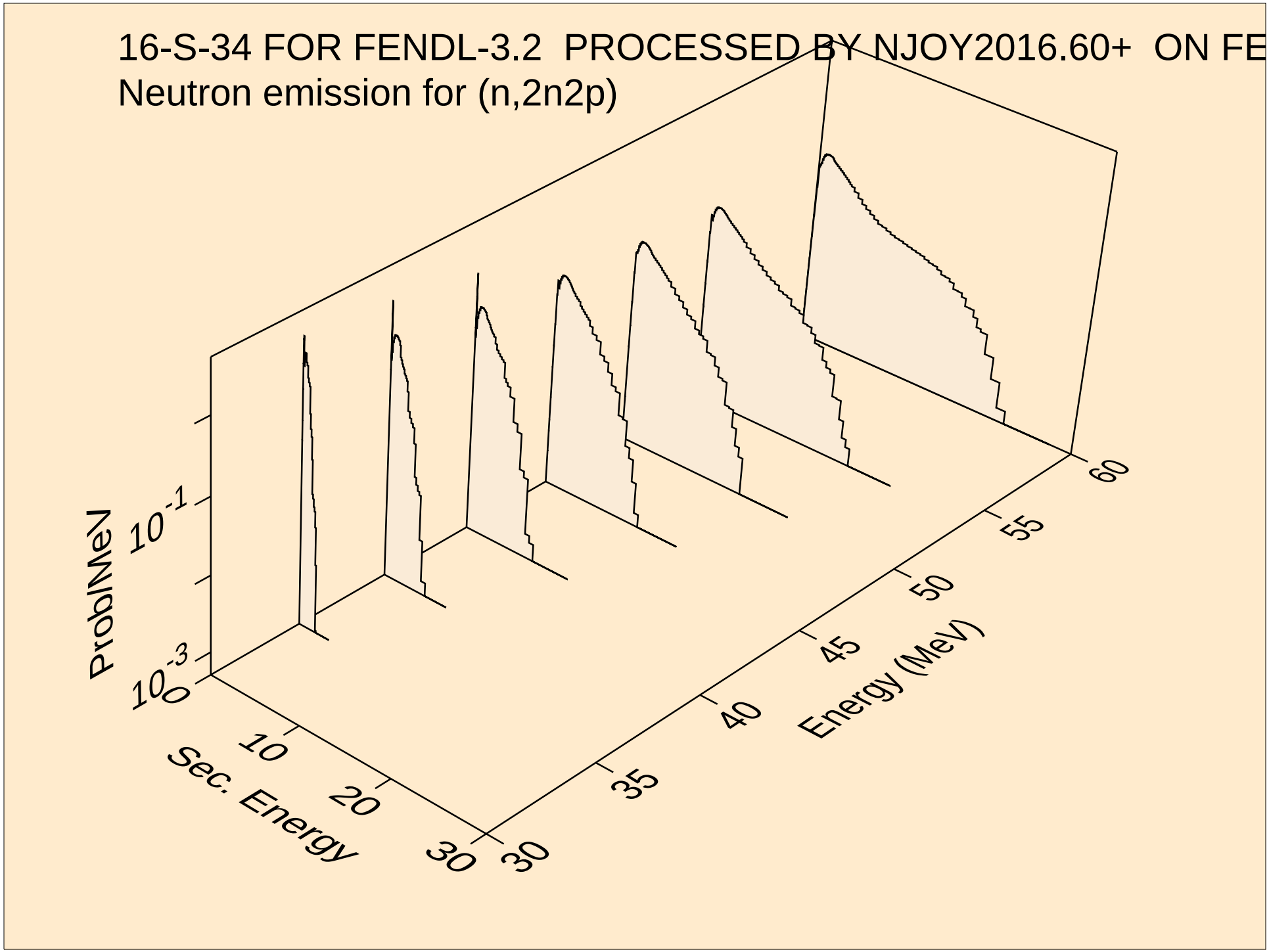

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,ndt)
Prob/MeV
10^{1}
10^{-1}
0
5
10
15
20
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

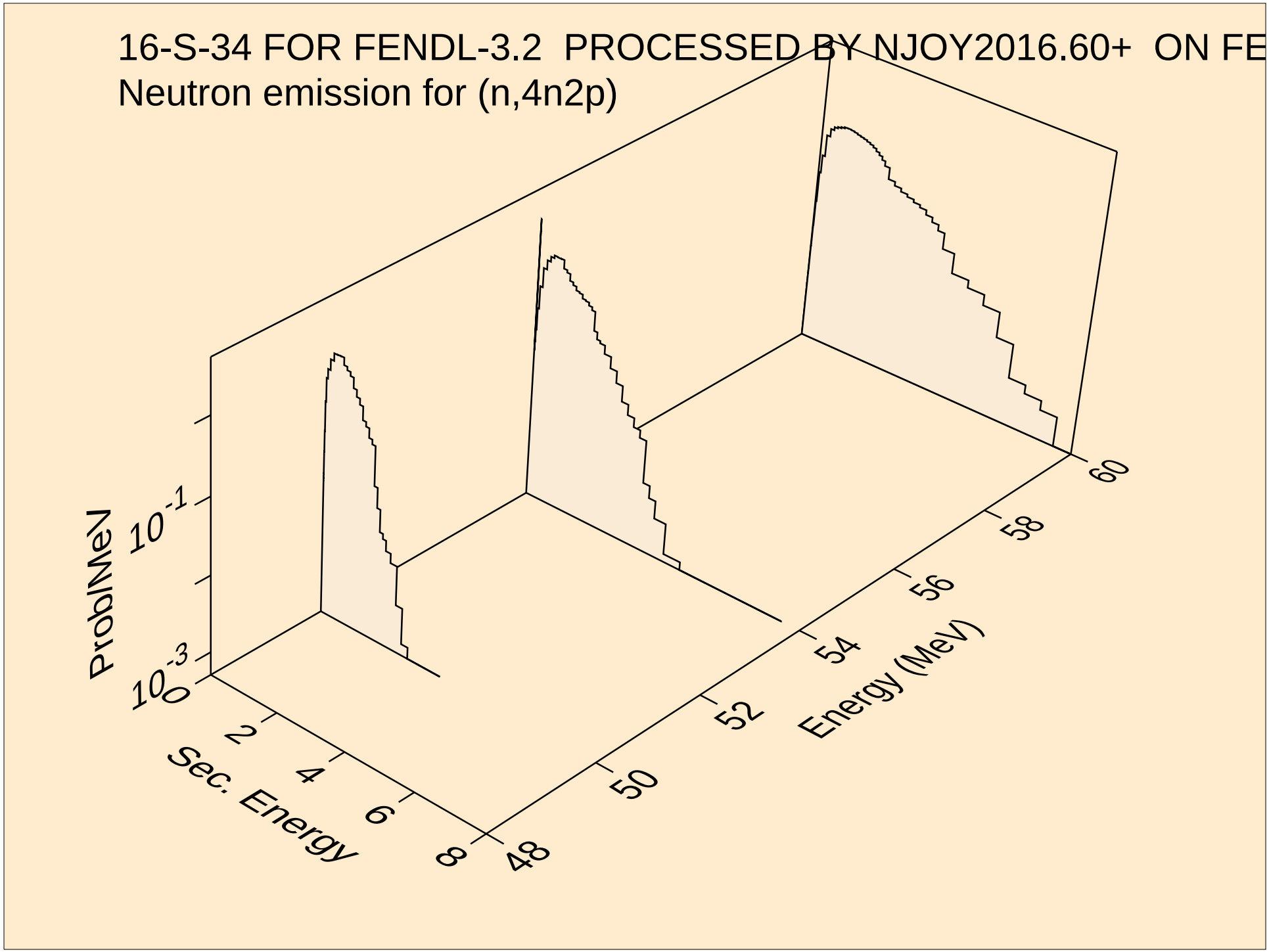

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,nphe3)
Prob/MeV
10^2
10^0
0
2
4
6
8
10
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

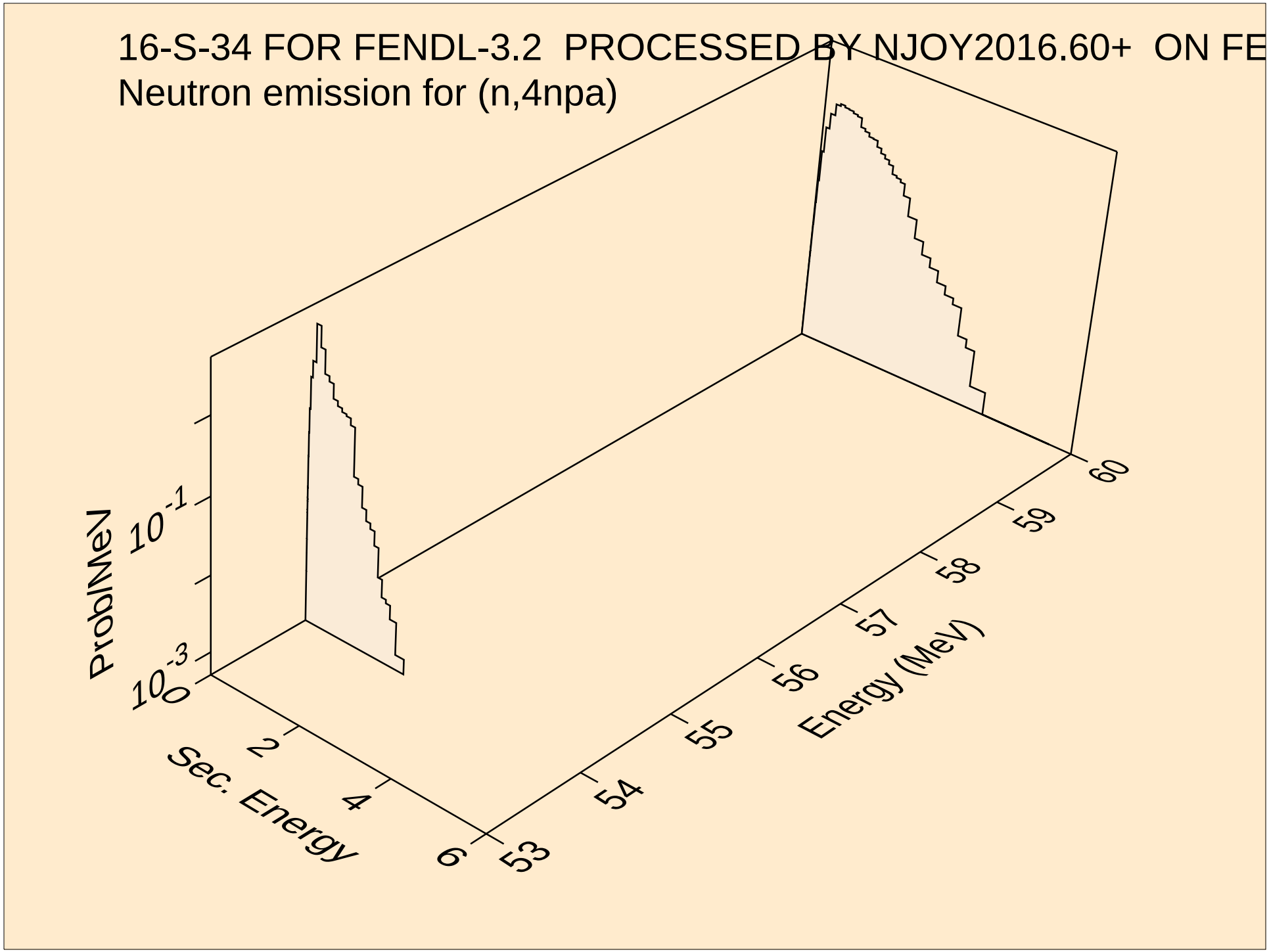

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,ndhe3)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

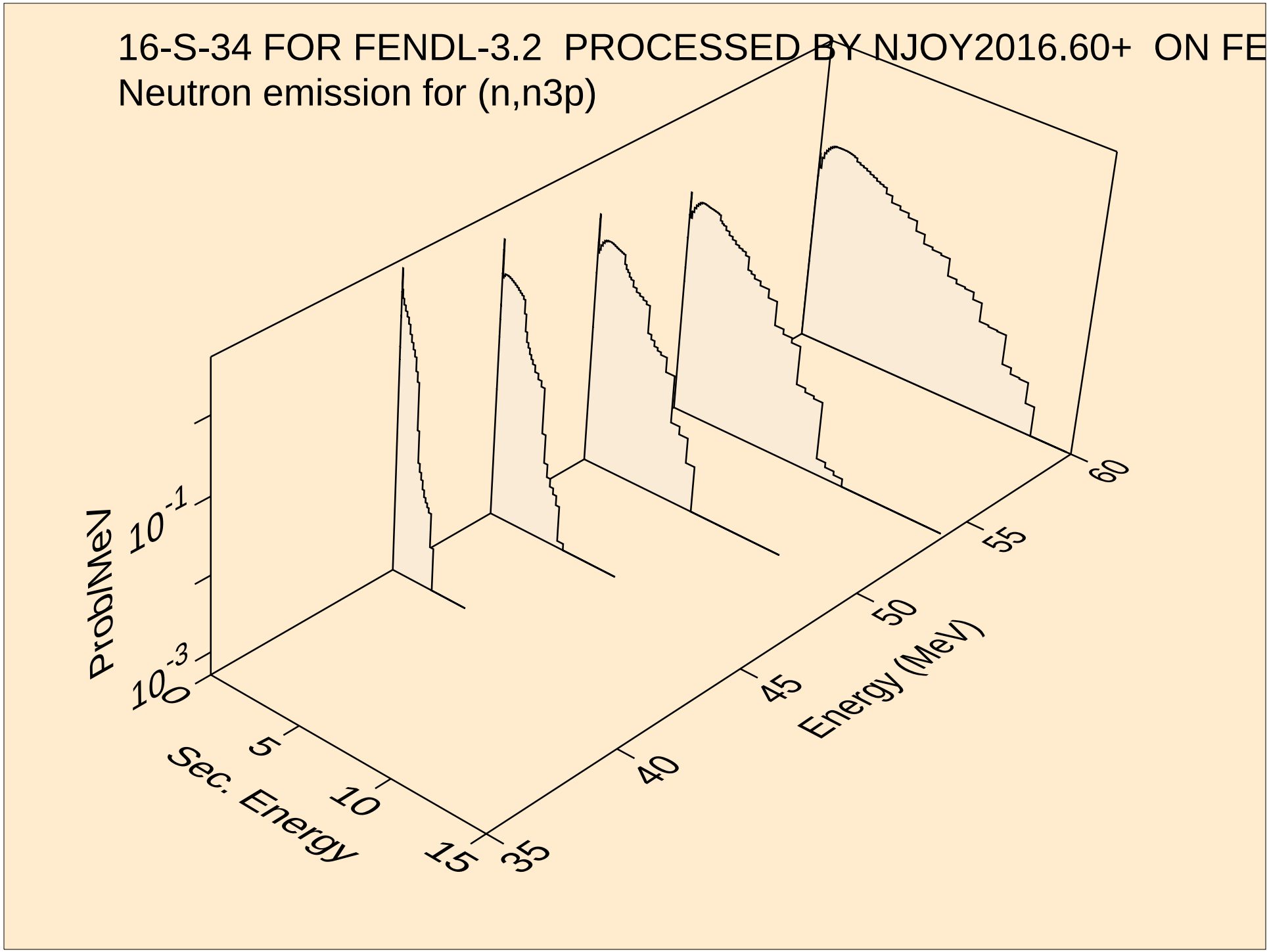

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,nthe3)
Prob/MeV
10^{1}
10^{-1}
0
2
4
6
8
Sec. Energy
44
46
48
50
52
54
56
58
60
Energy (MeV)

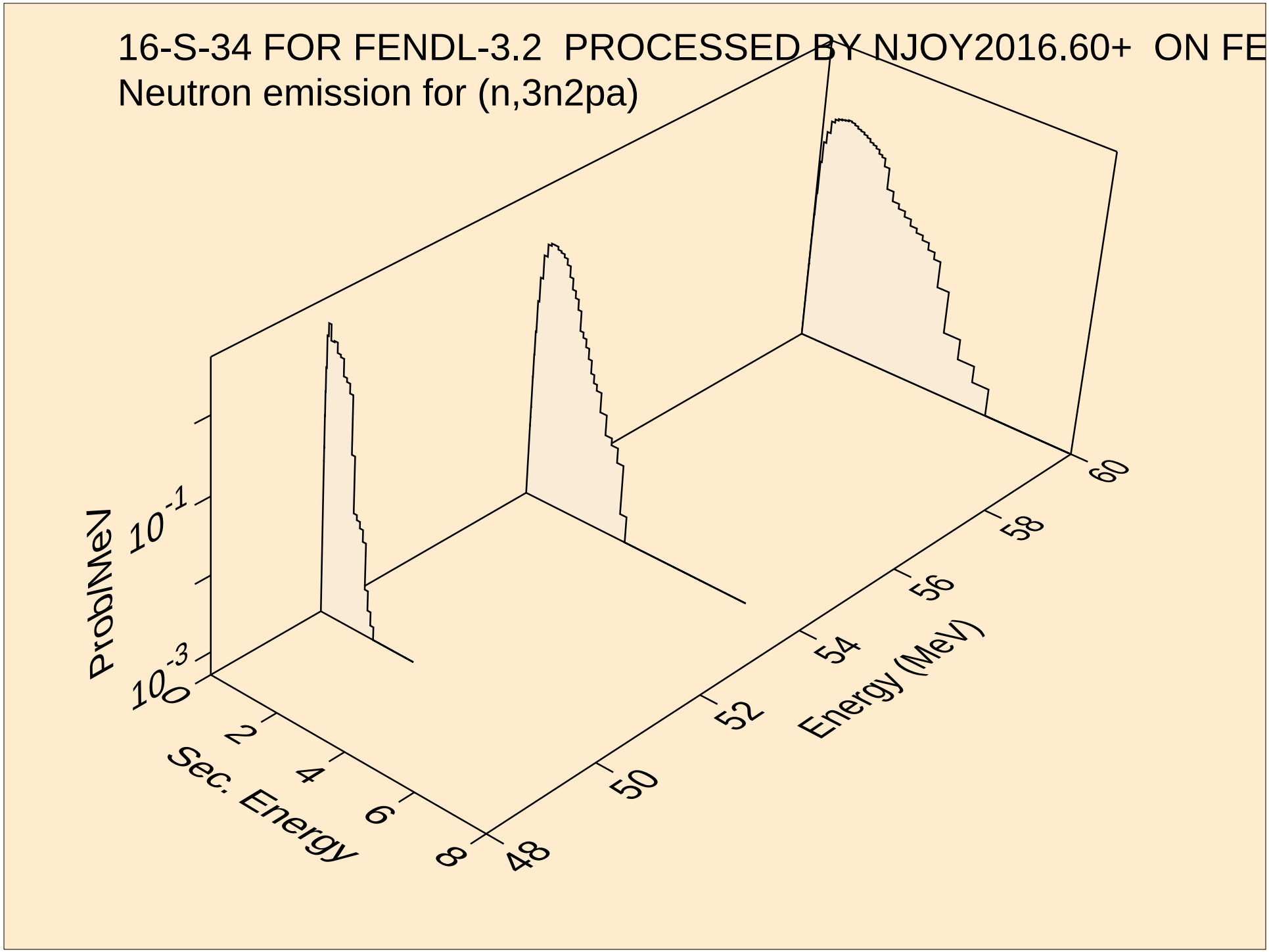

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,nta)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
30
35
40
45
50
55
60
Energy (MeV)

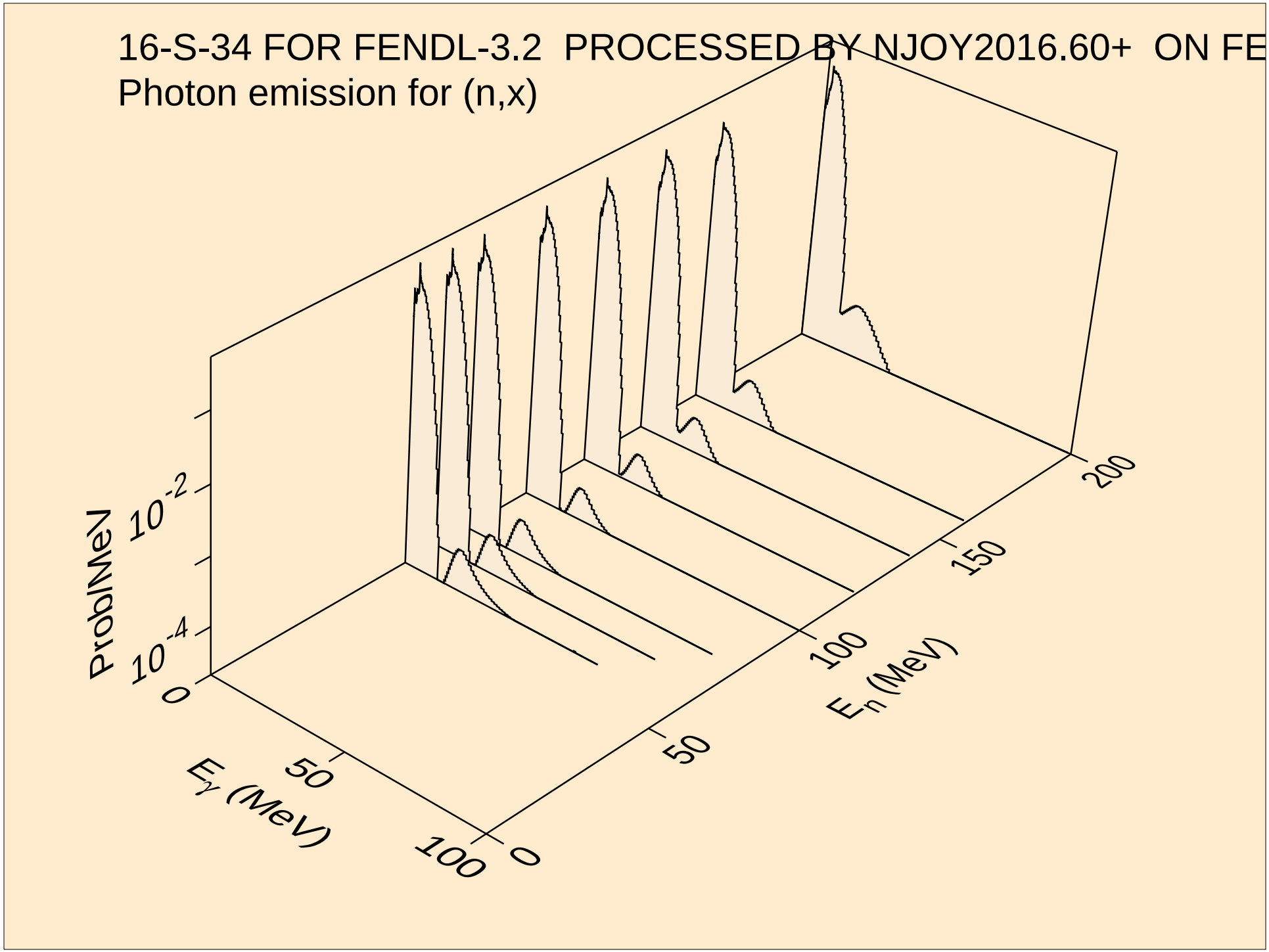

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,2n2p)
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
30
35
40
45
50
55
60
Energy (MeV)

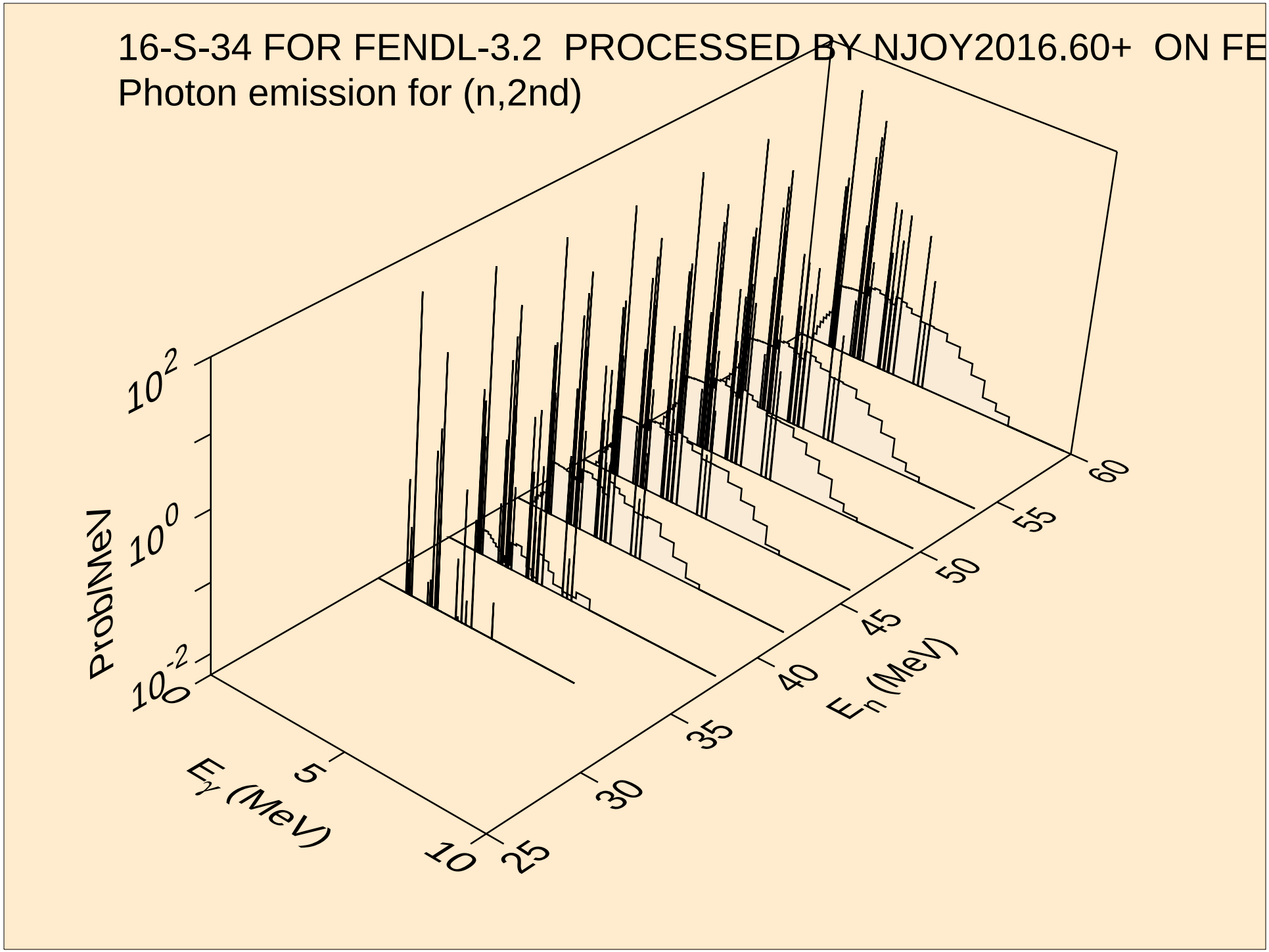

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,4n2p)
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
48
50
52
54
56
58
60
Energy (MeV)

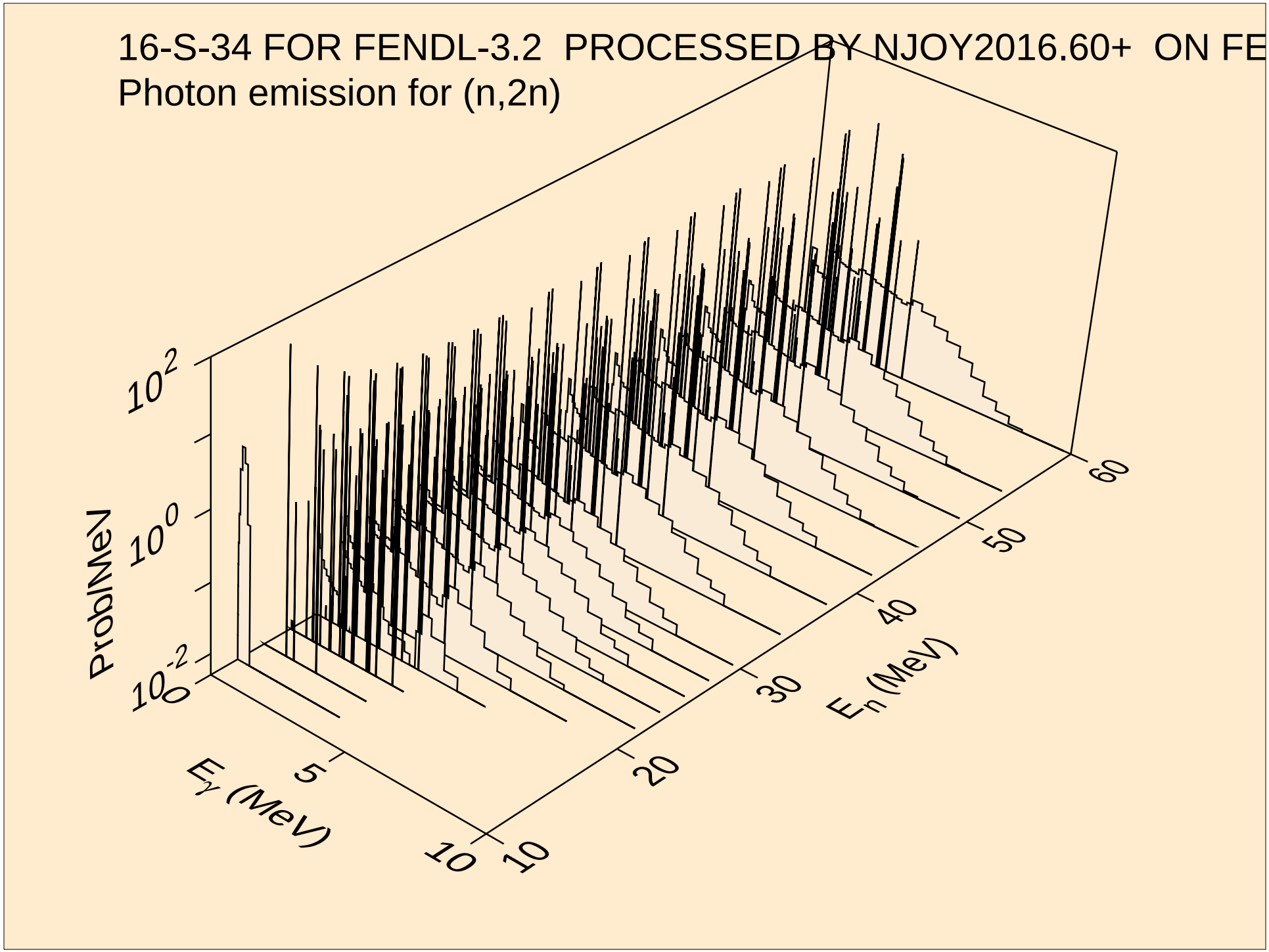

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,4npa)
Prob/MeV
10-1
10-3
0
2
4
6
Sec. Energy
53
54
55
56
57
58
59
60
Energy (MeV)

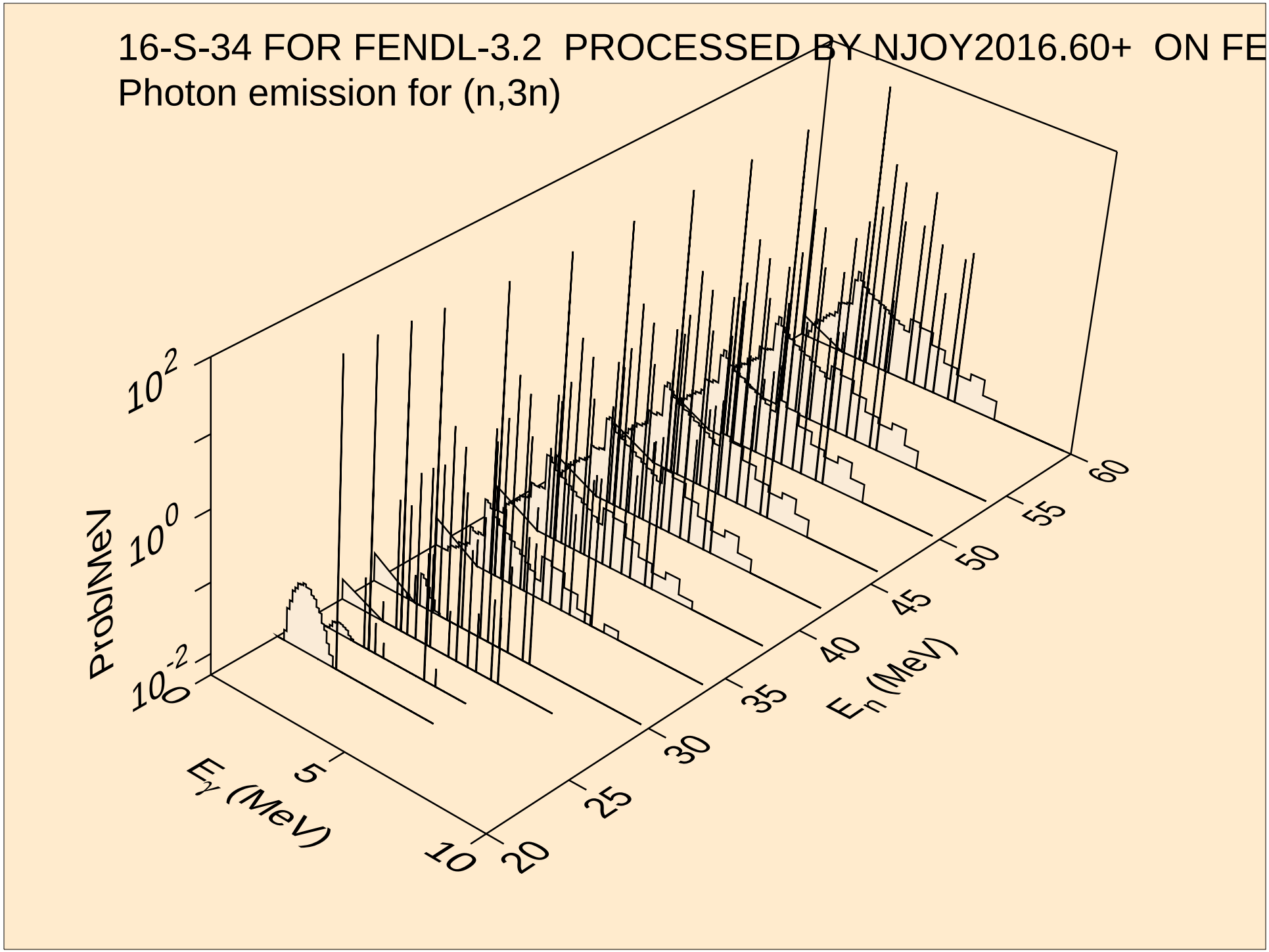

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,n3p)
Prob/MeV
10-1
10-3
0
5
10
15
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

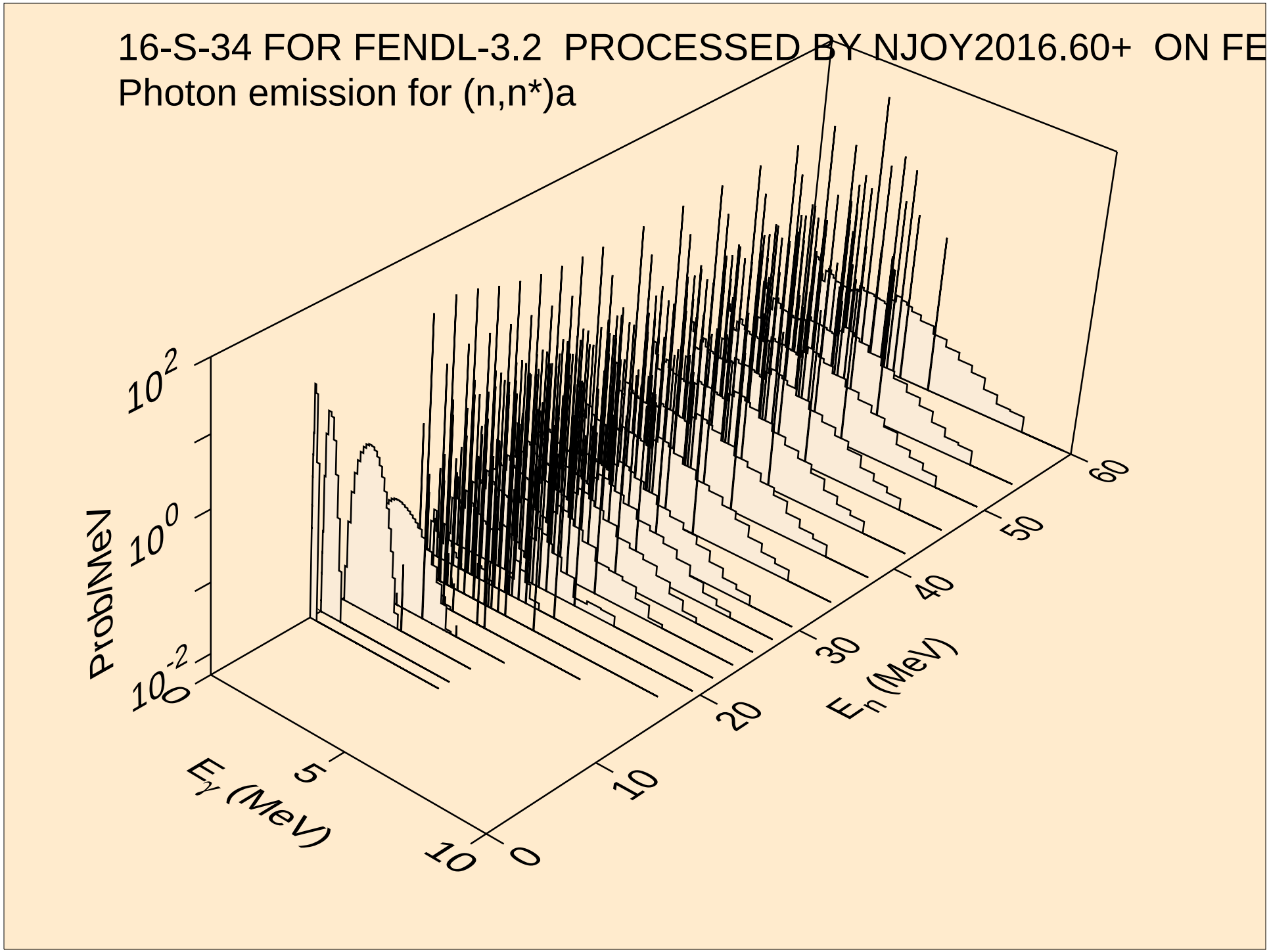

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Neutron emission for (n,3n2pa)
Prob/MeV
10-1
10-3
0
2
4
6
8
Sec. Energy
48
50
52
54
56
58
60
Energy (MeV)

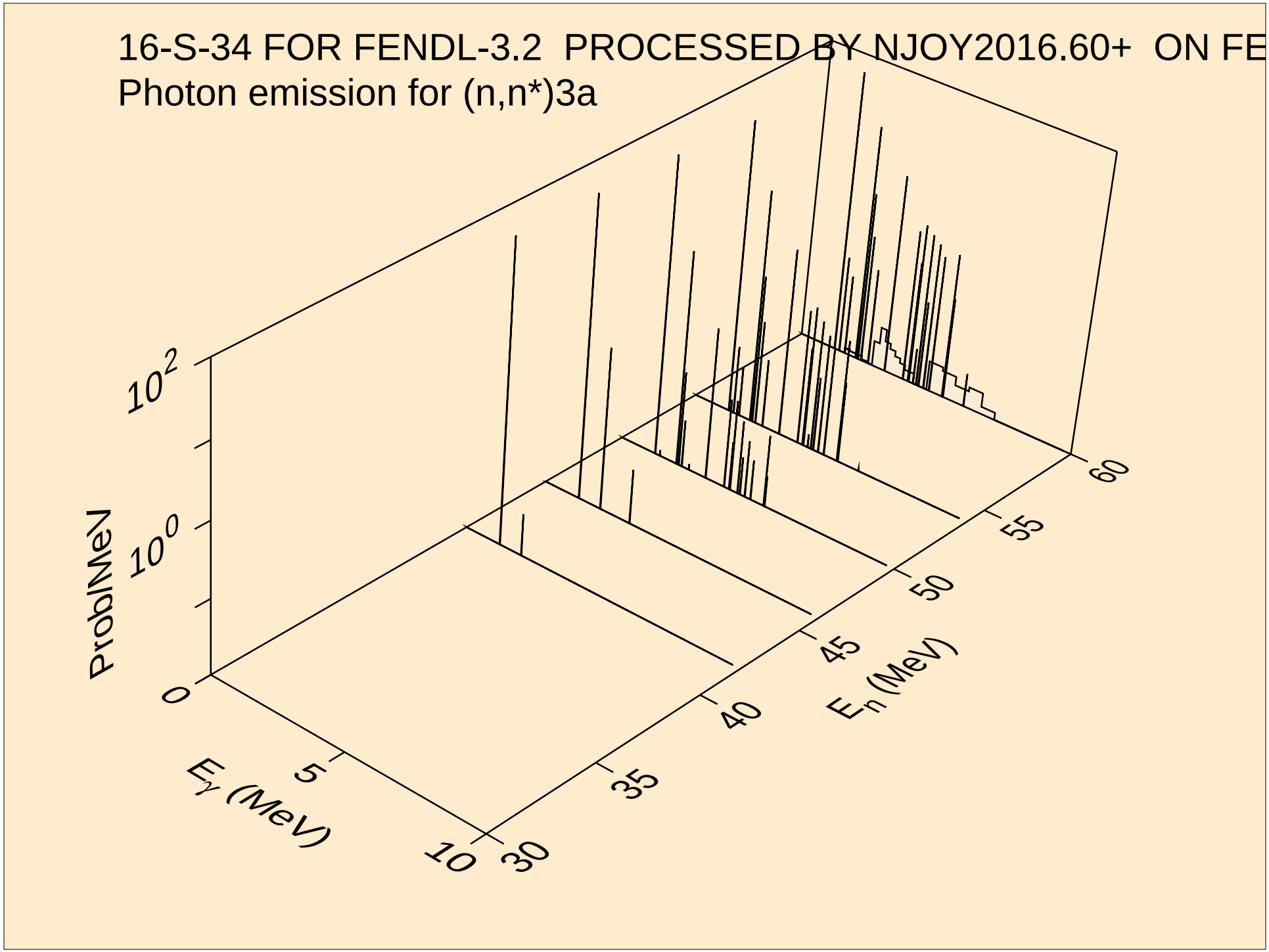

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,x)
Prob/MeV
10-2
10-4
0
50
100
Eγ (MeV)
0
50
100
150
200
En (MeV)

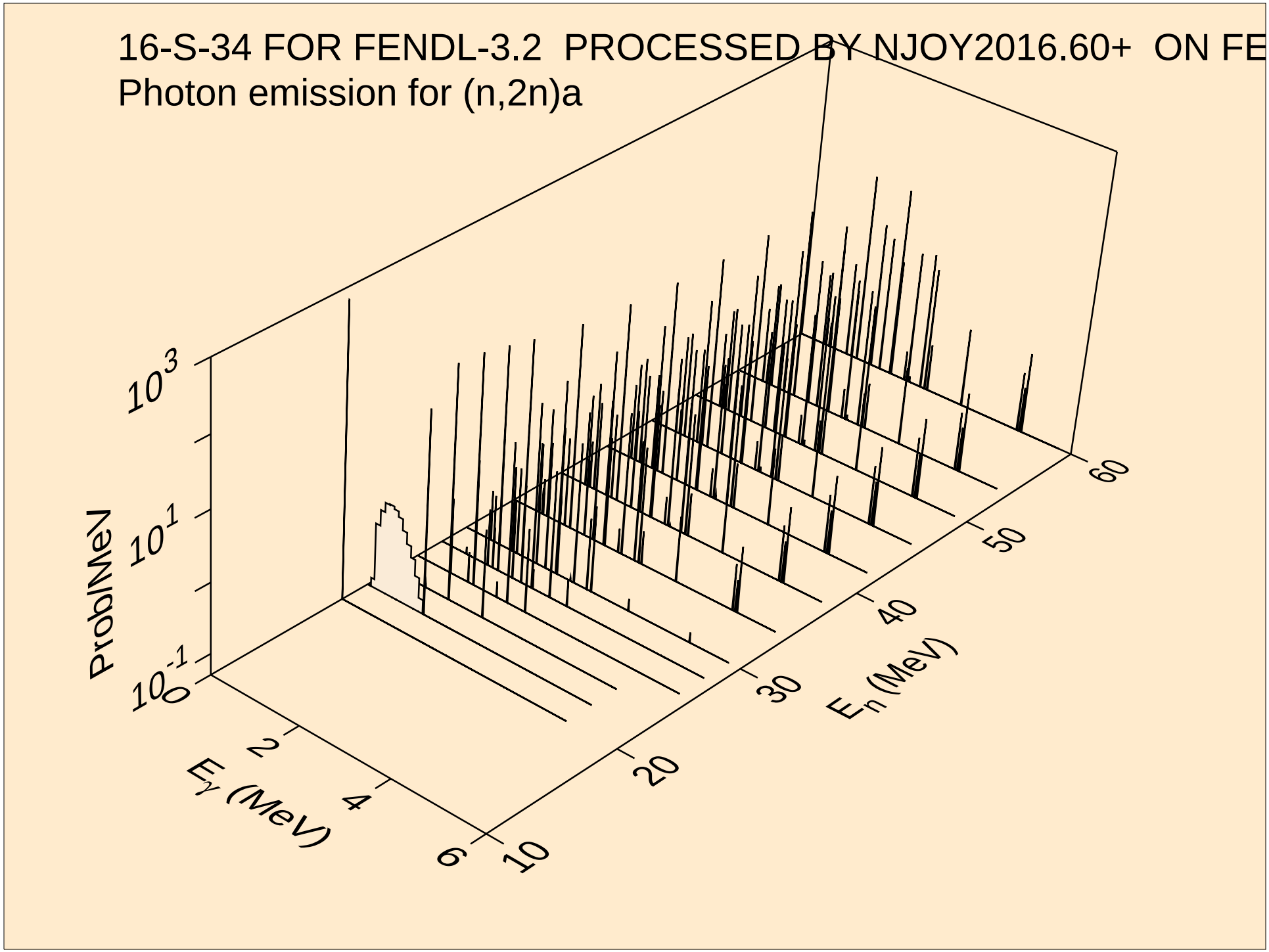

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2nd)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
E_n (MeV)
25
30
35
40
45
50
55
60

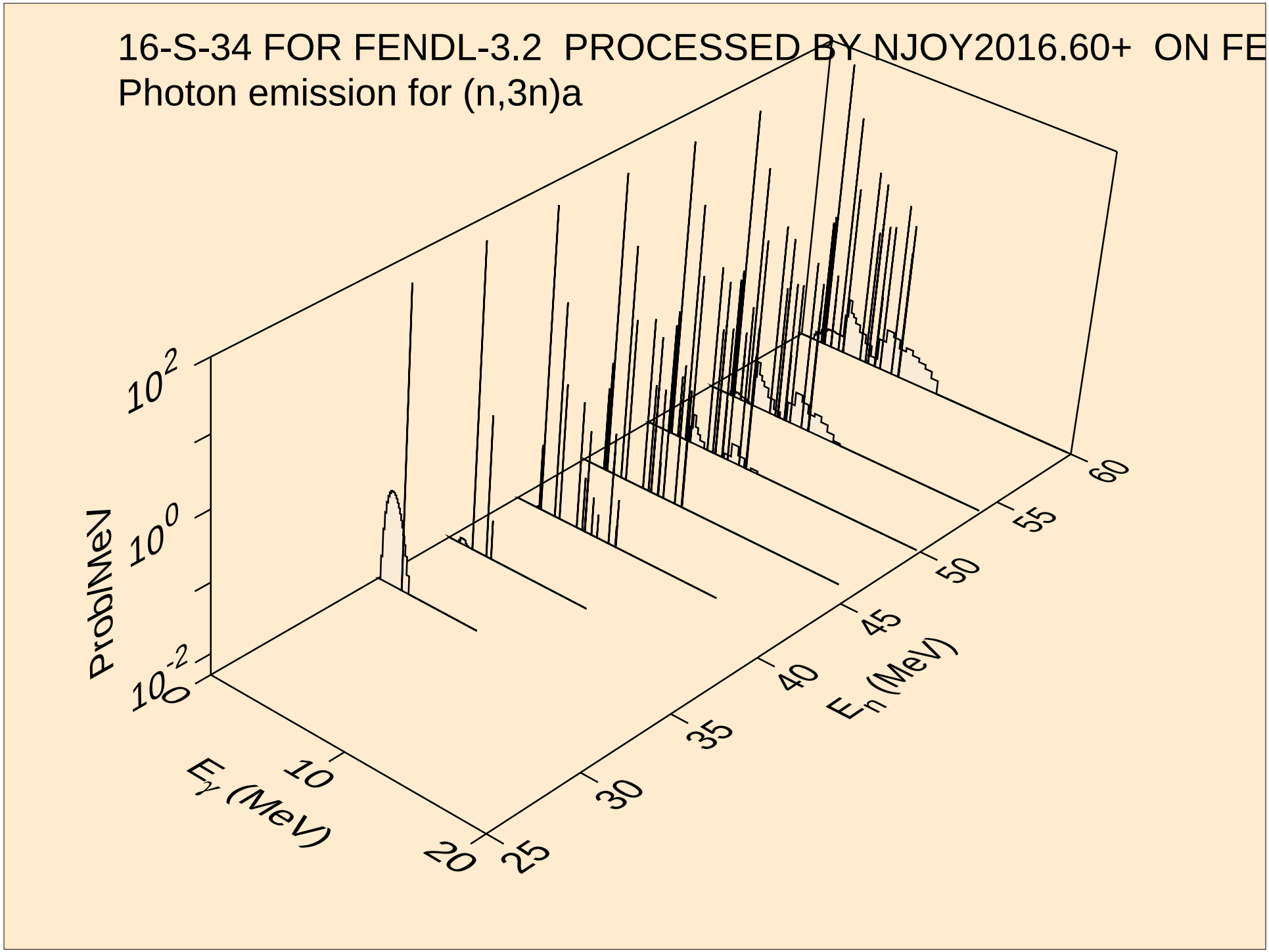

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

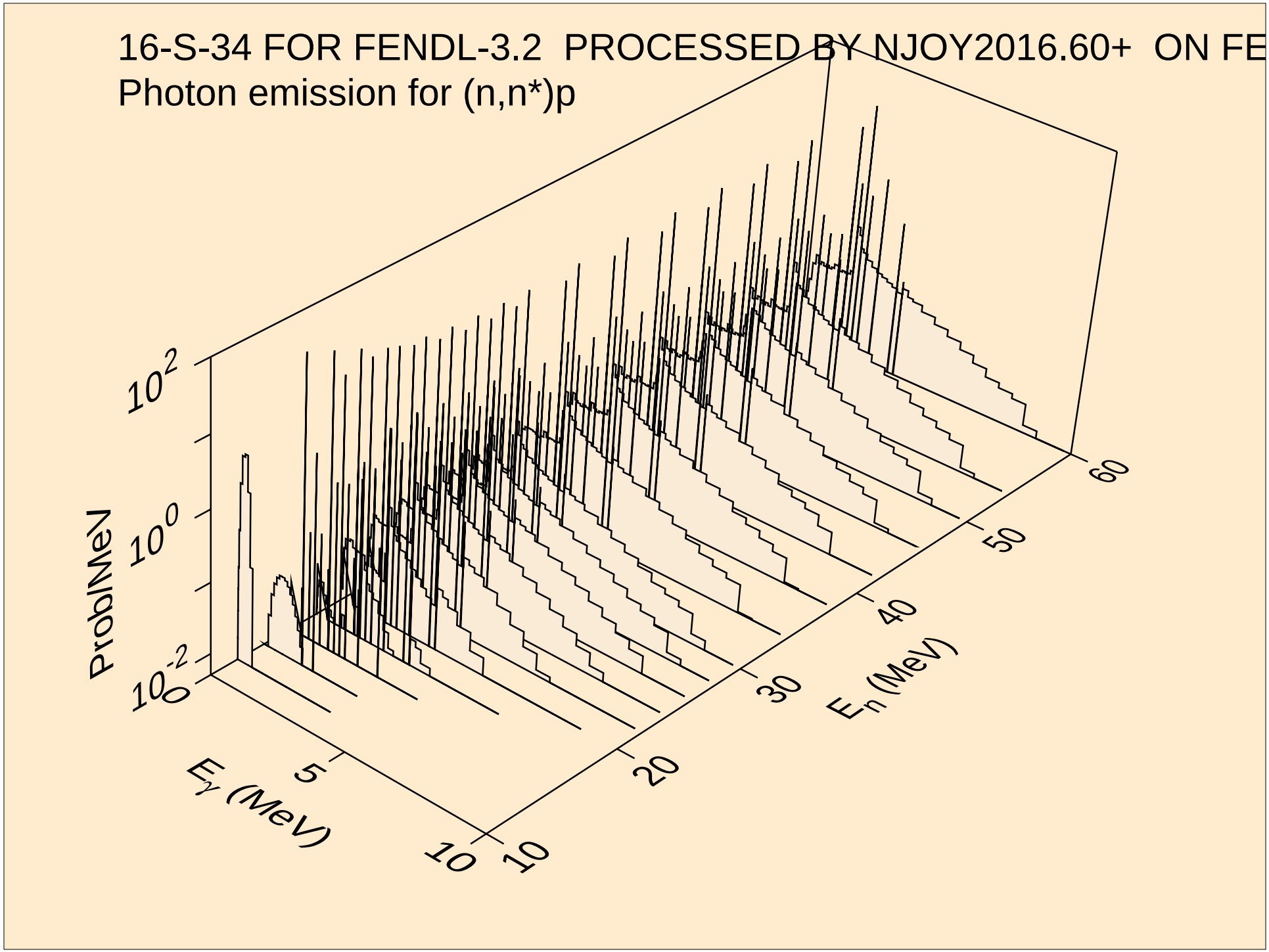

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
20
25
30
35
40
45
50
55
60
E_n (MeV)

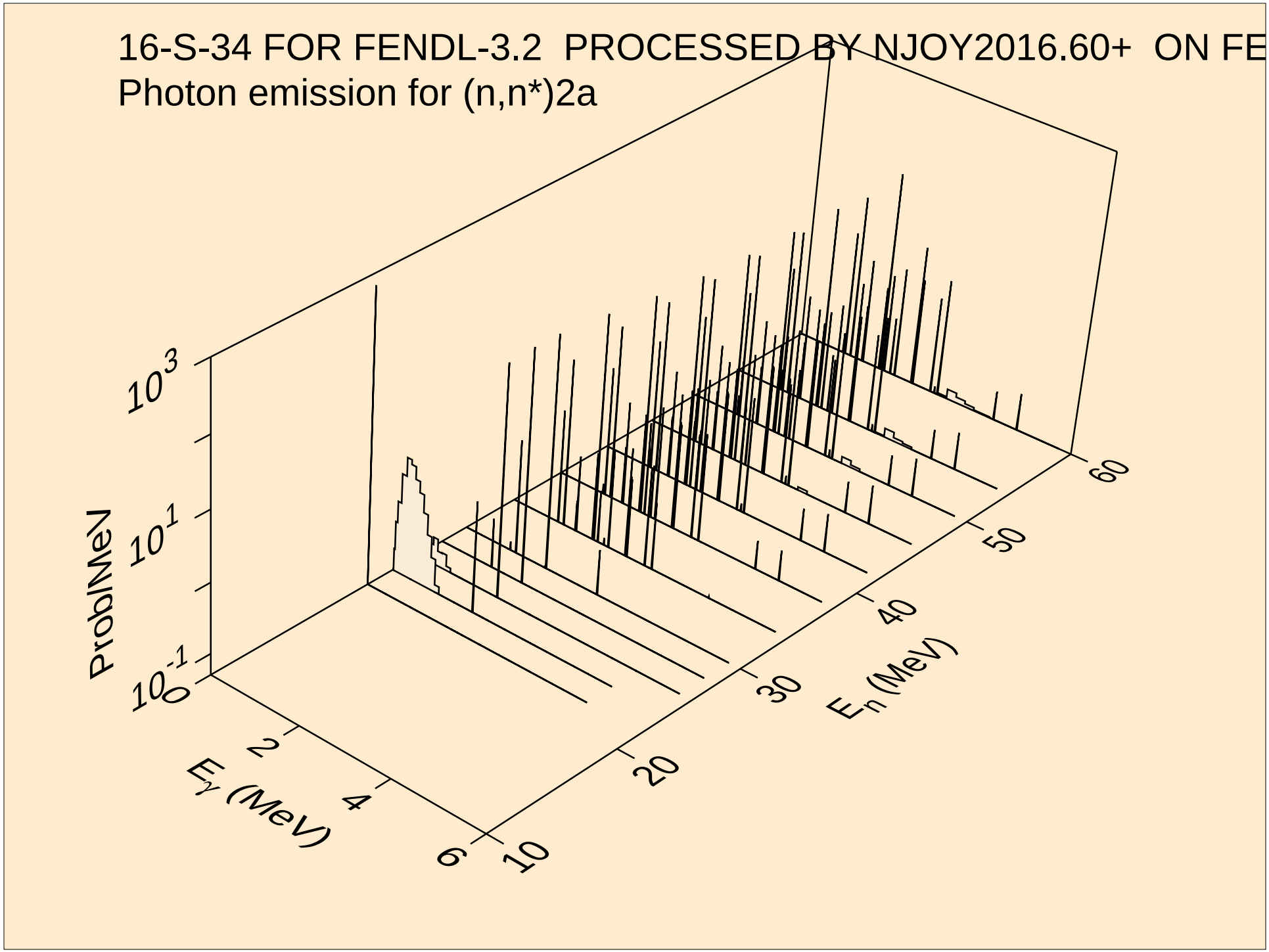

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
E_n (MeV)
0
10
20
30
40
50
60

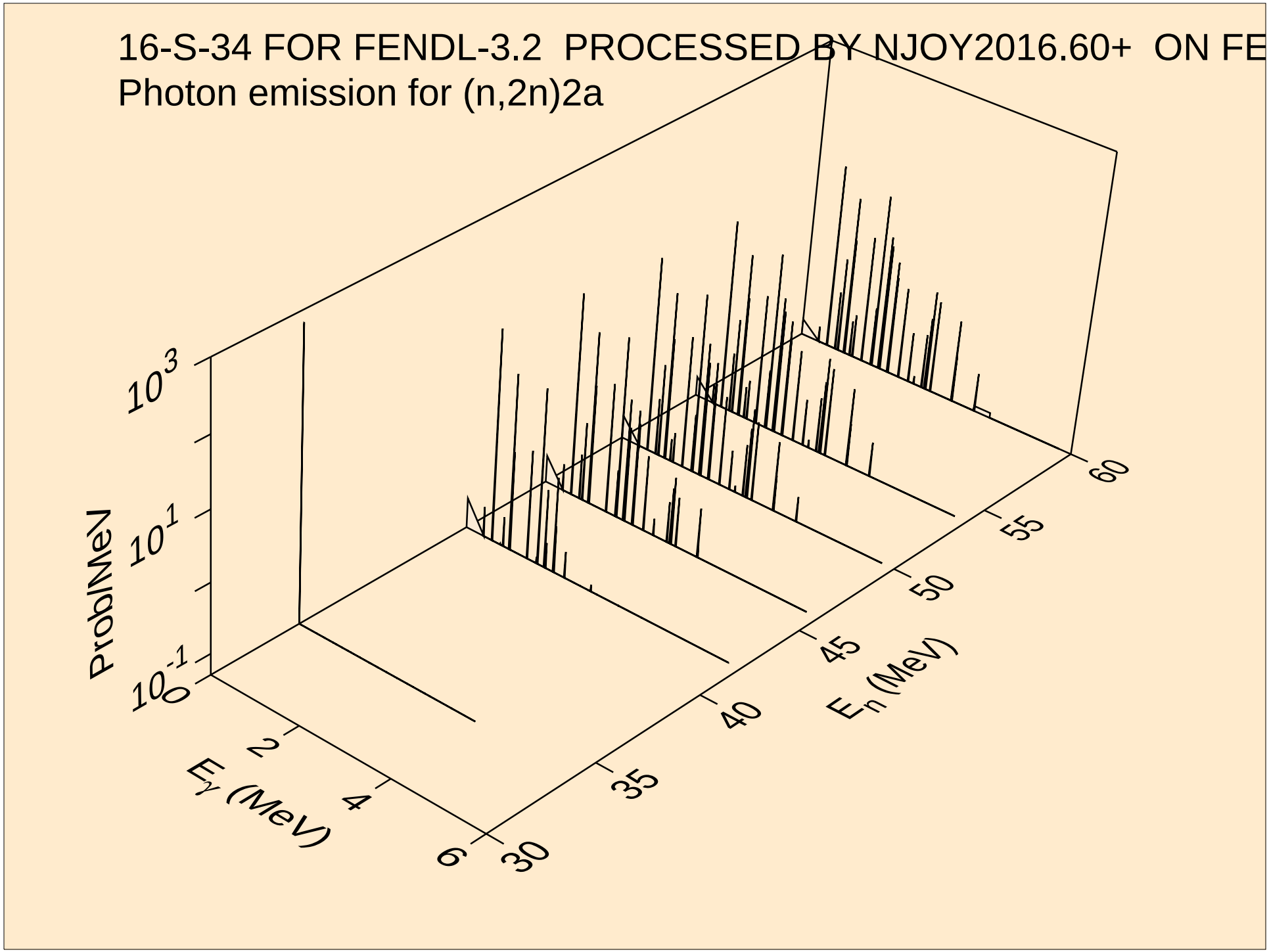

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)3a
Prob/MeV
10^2
10^0
0
E_γ (MeV)
5
10
30
35
40
45
50
55
60
E_n (MeV)

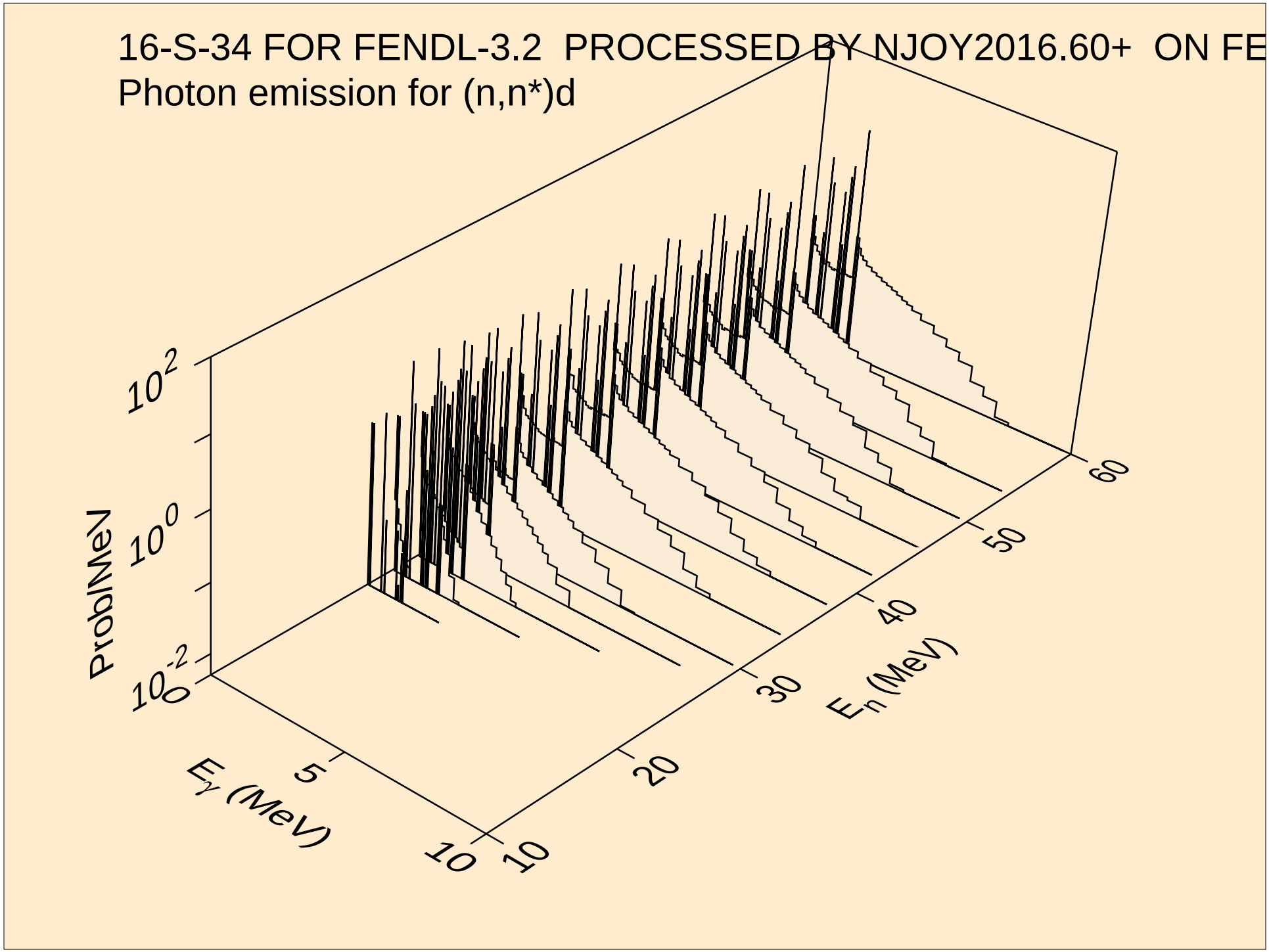

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2n)a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

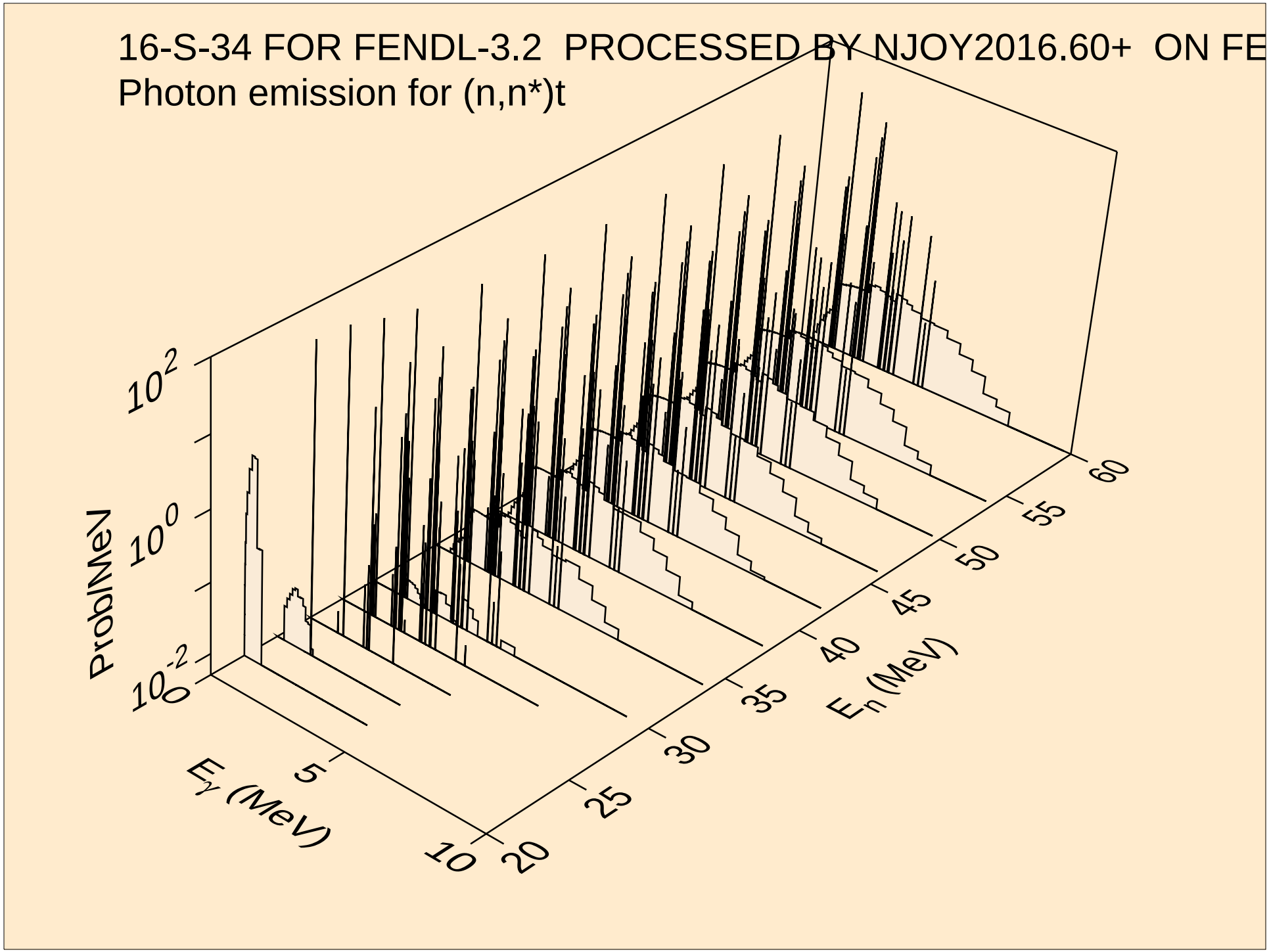

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3n)a
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
10
20
E_γ (MeV)
25
30
35
40
45
50
55
60
E_n (MeV)

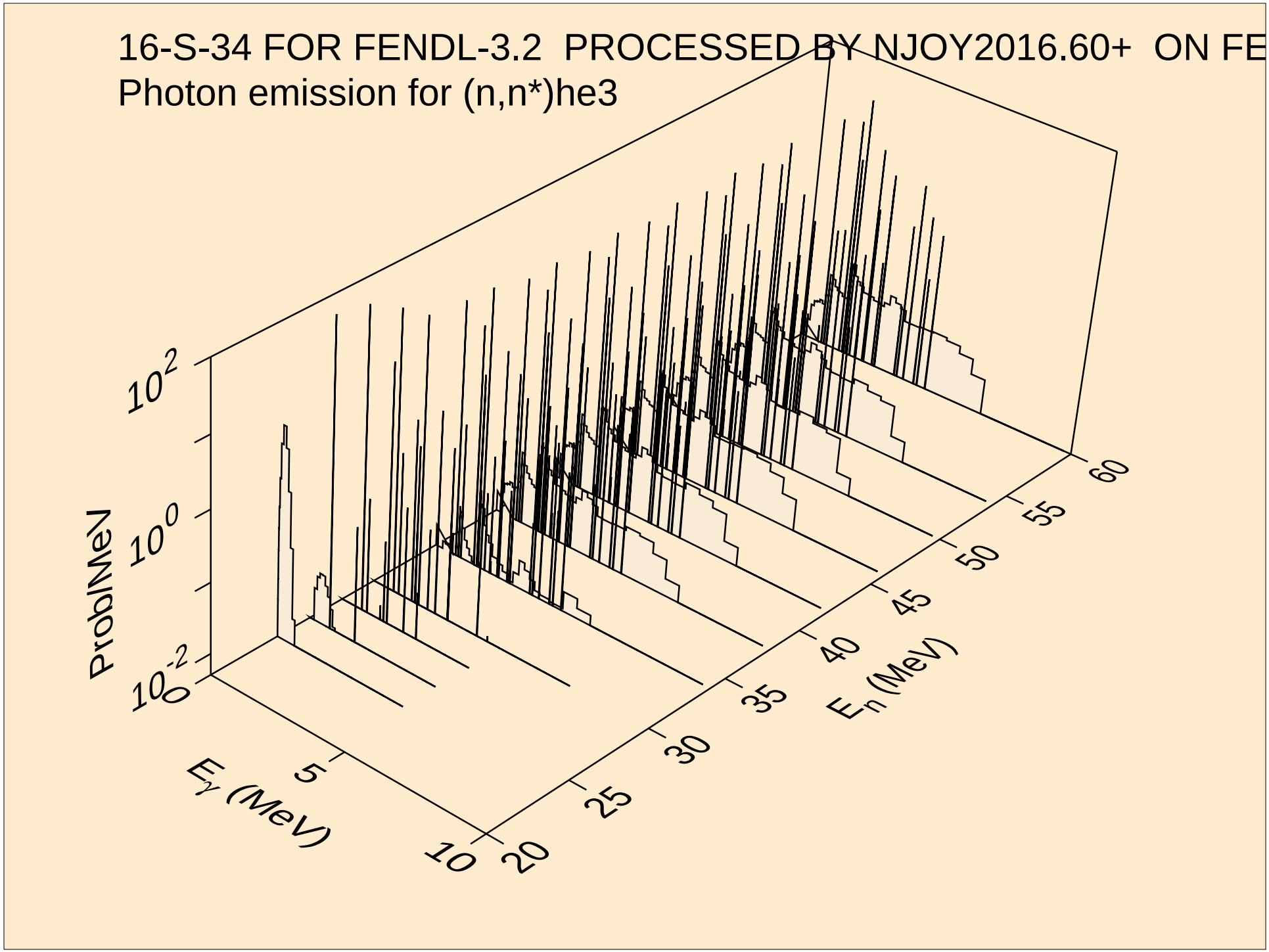

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)p
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

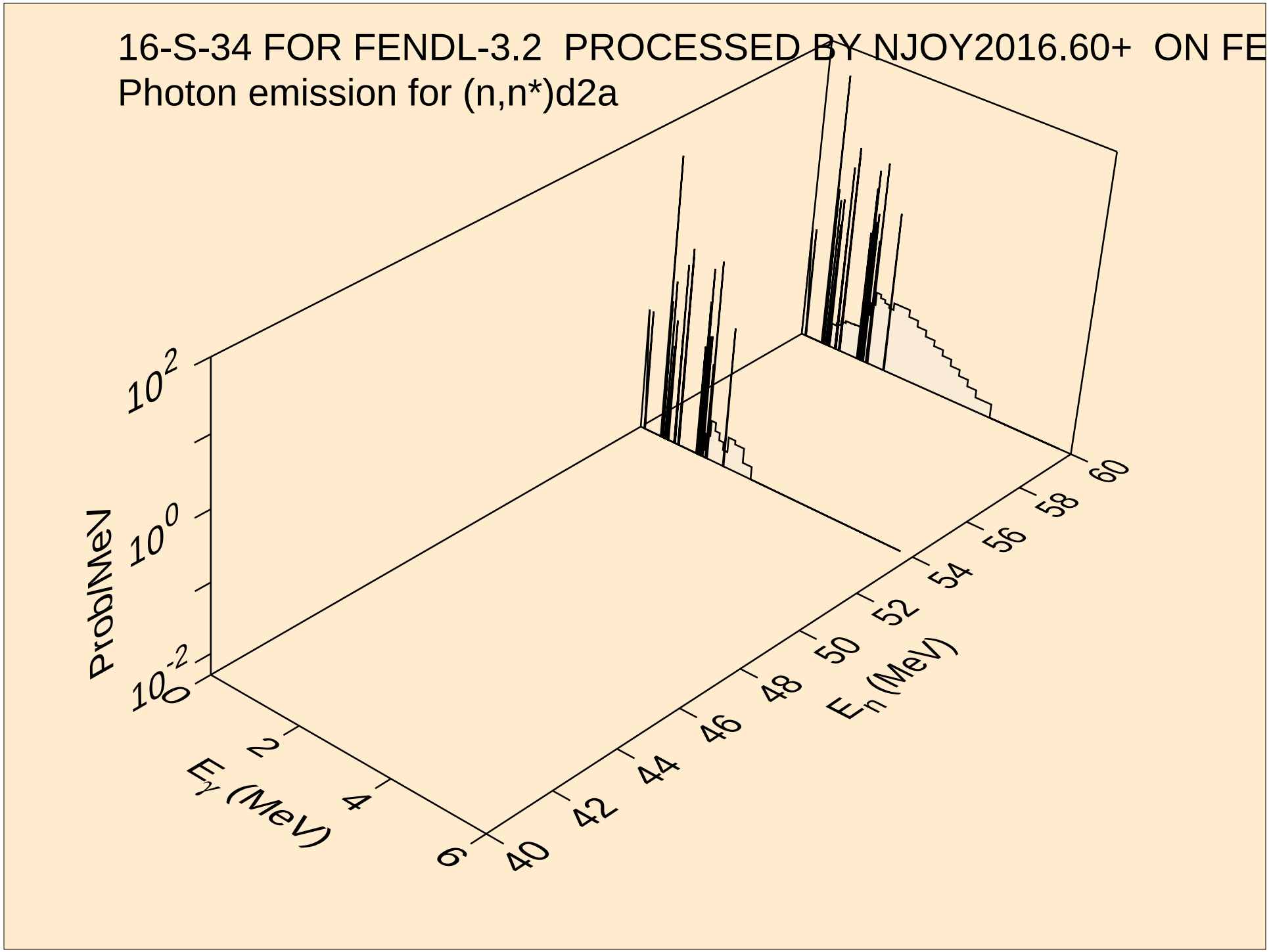

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)2a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

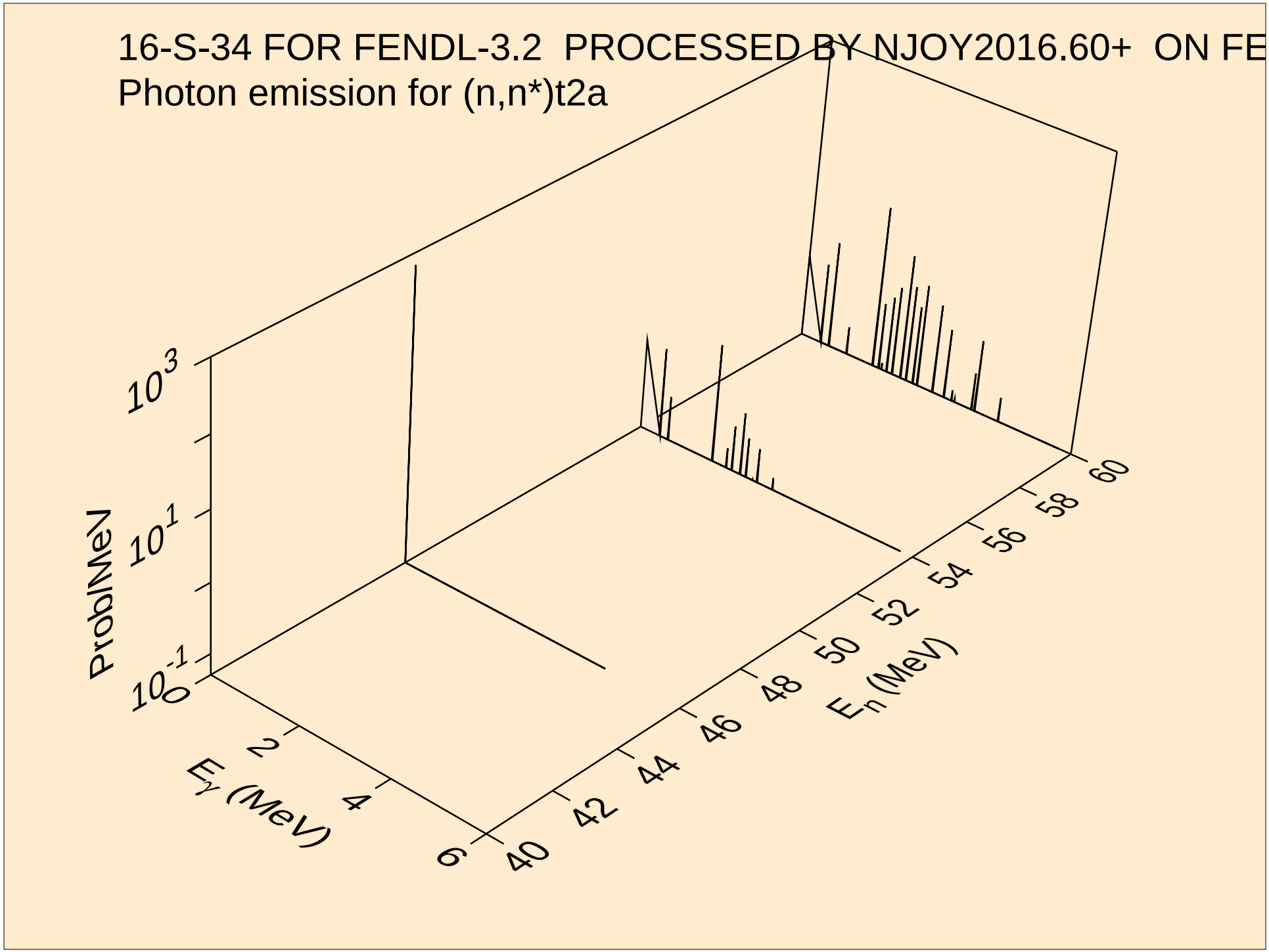

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2n)2a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
30
35
40
45
50
55
60
E_n (MeV)

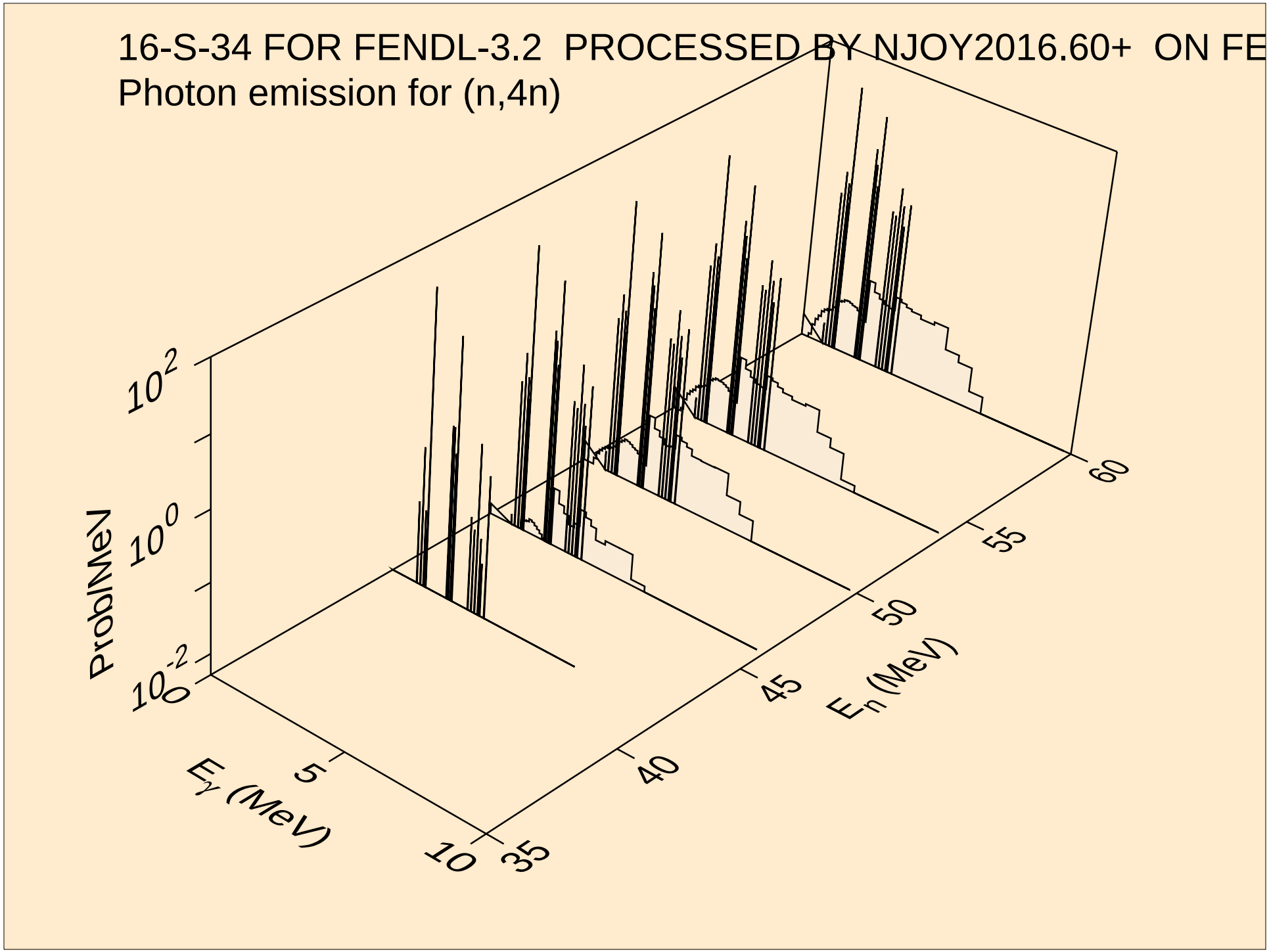

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)d
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

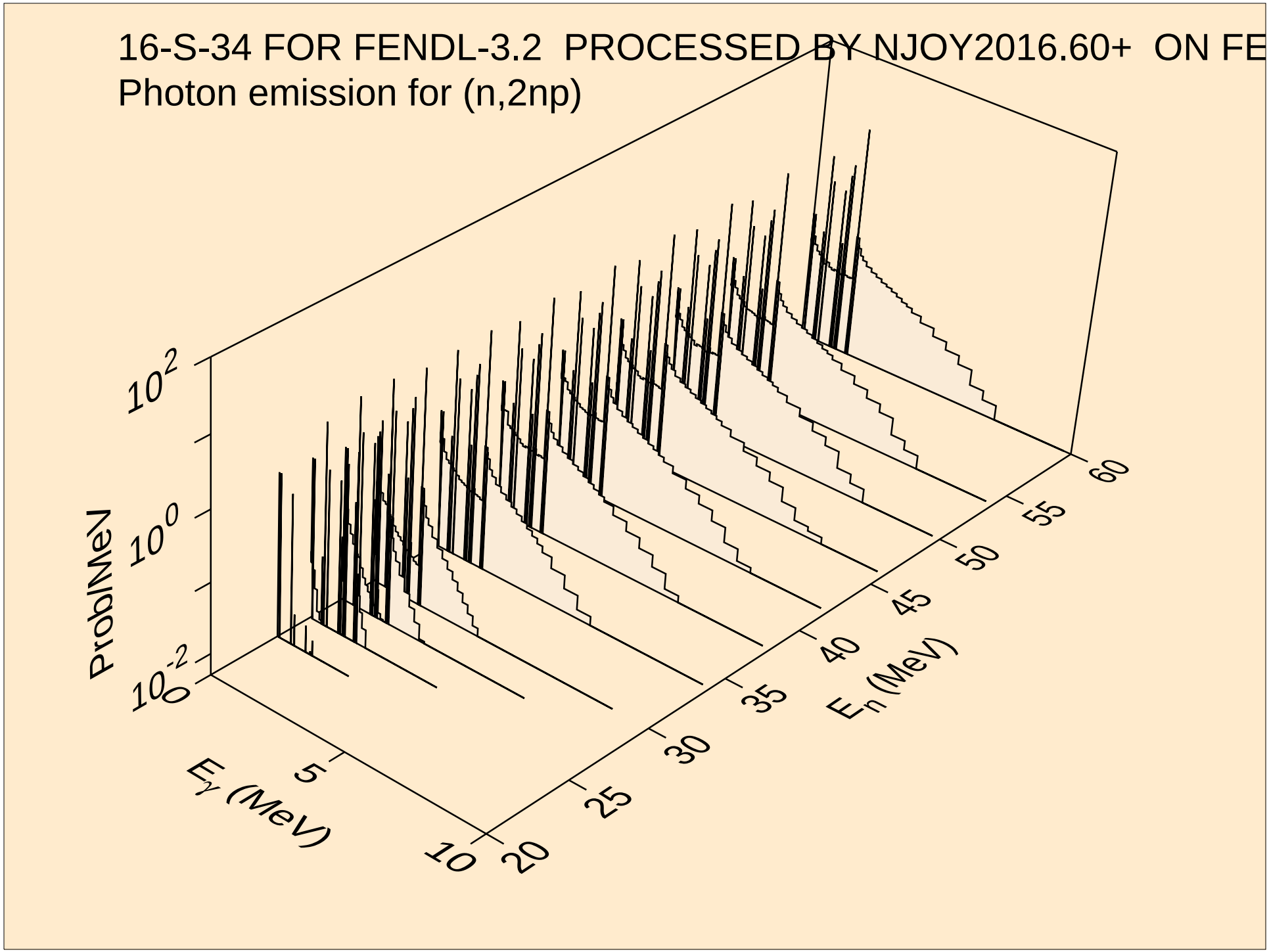

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)t
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
20
25
30
35
40
45
50
55
60
E_n (MeV)

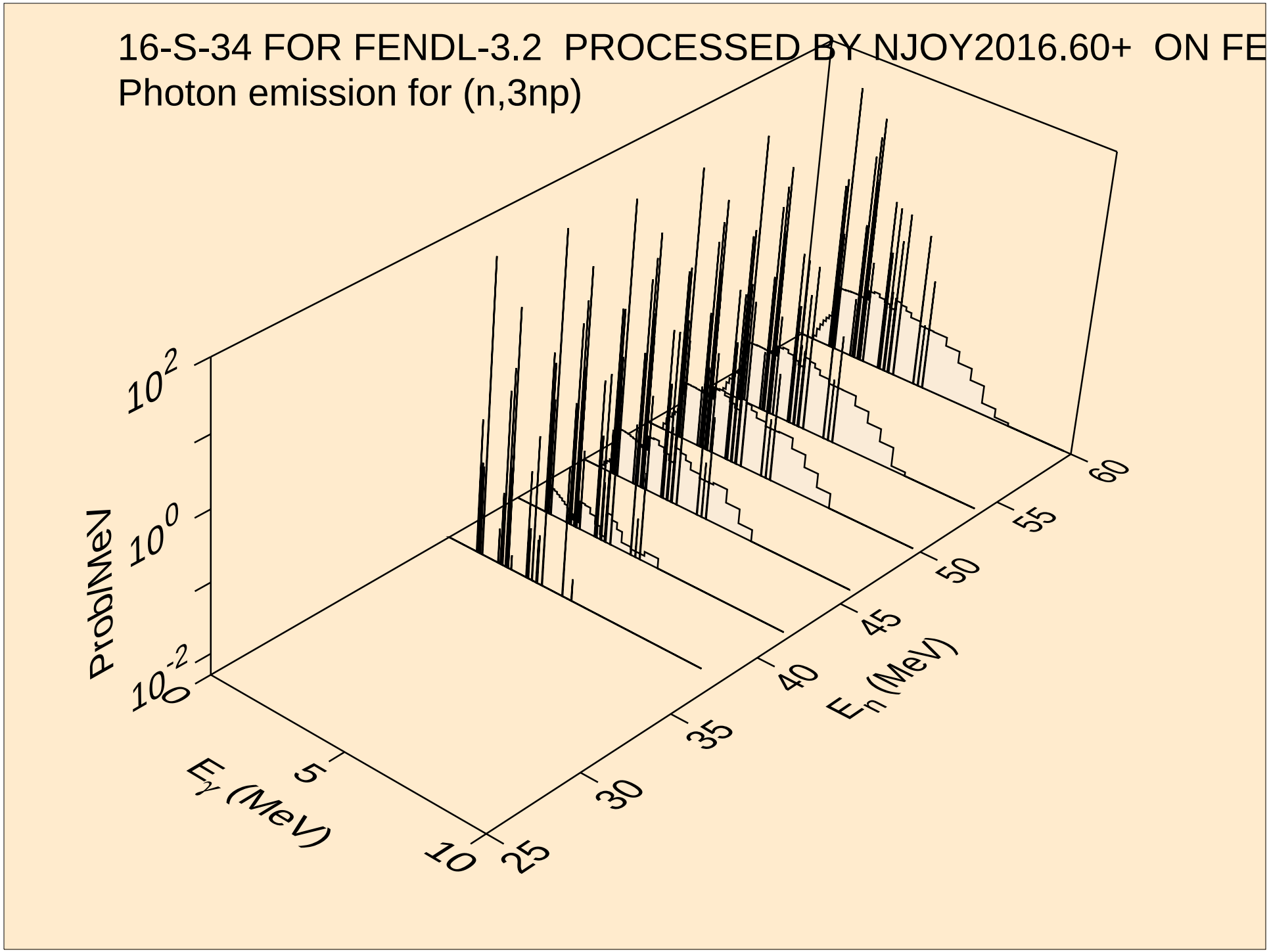

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)he3
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
20
25
30
35
40
45
50
55
60
E_n (MeV)

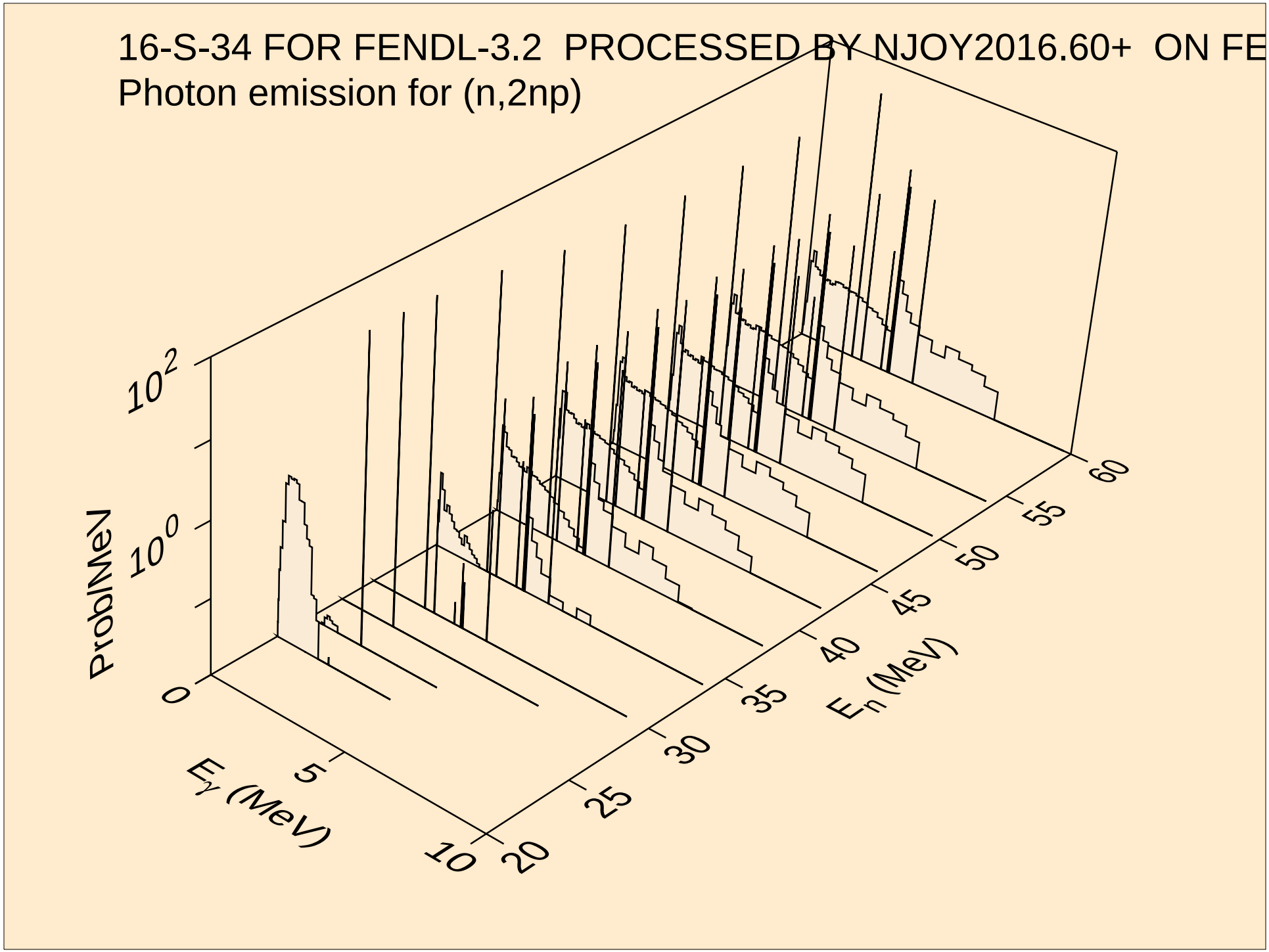

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)d2a
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
2
4
6
E_n (MeV)
40
42
44
46
48
50
52
54
56
58
60

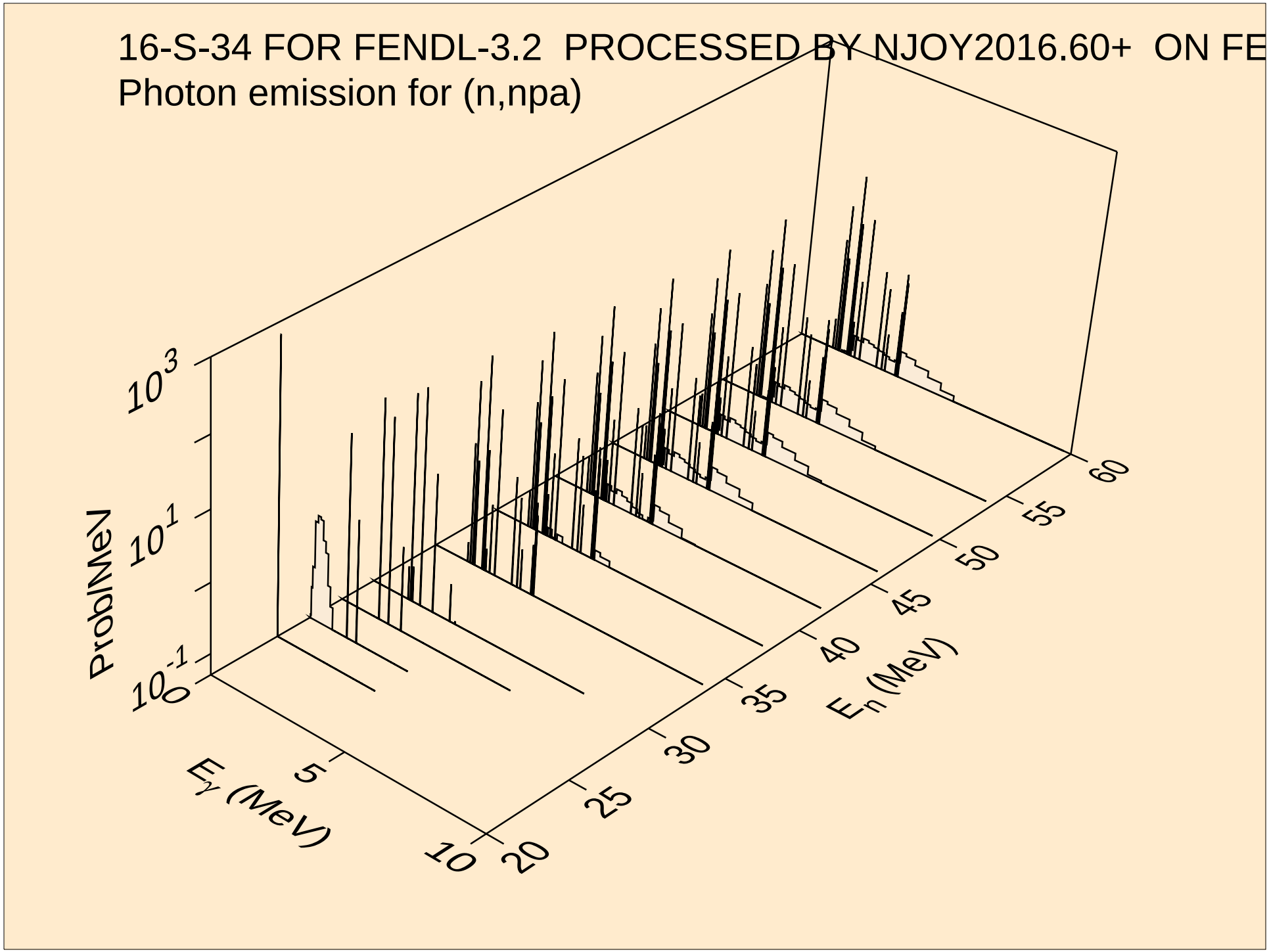

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*)t2a
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
40
42
44
46
48
50
52
54
56
58
60
E_n (MeV)

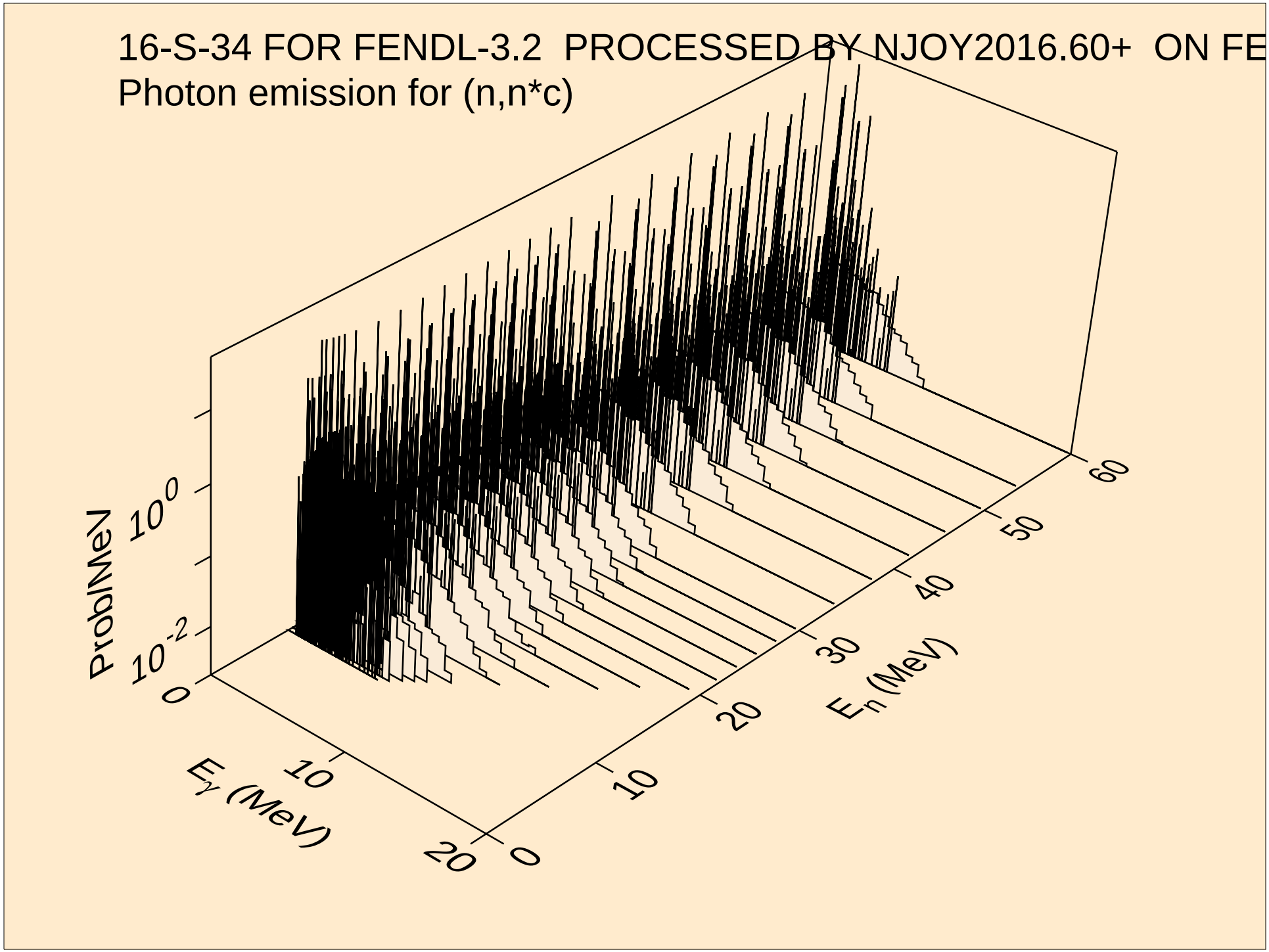

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,4n)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
35
40
45
50
55
60
E_n (MeV)

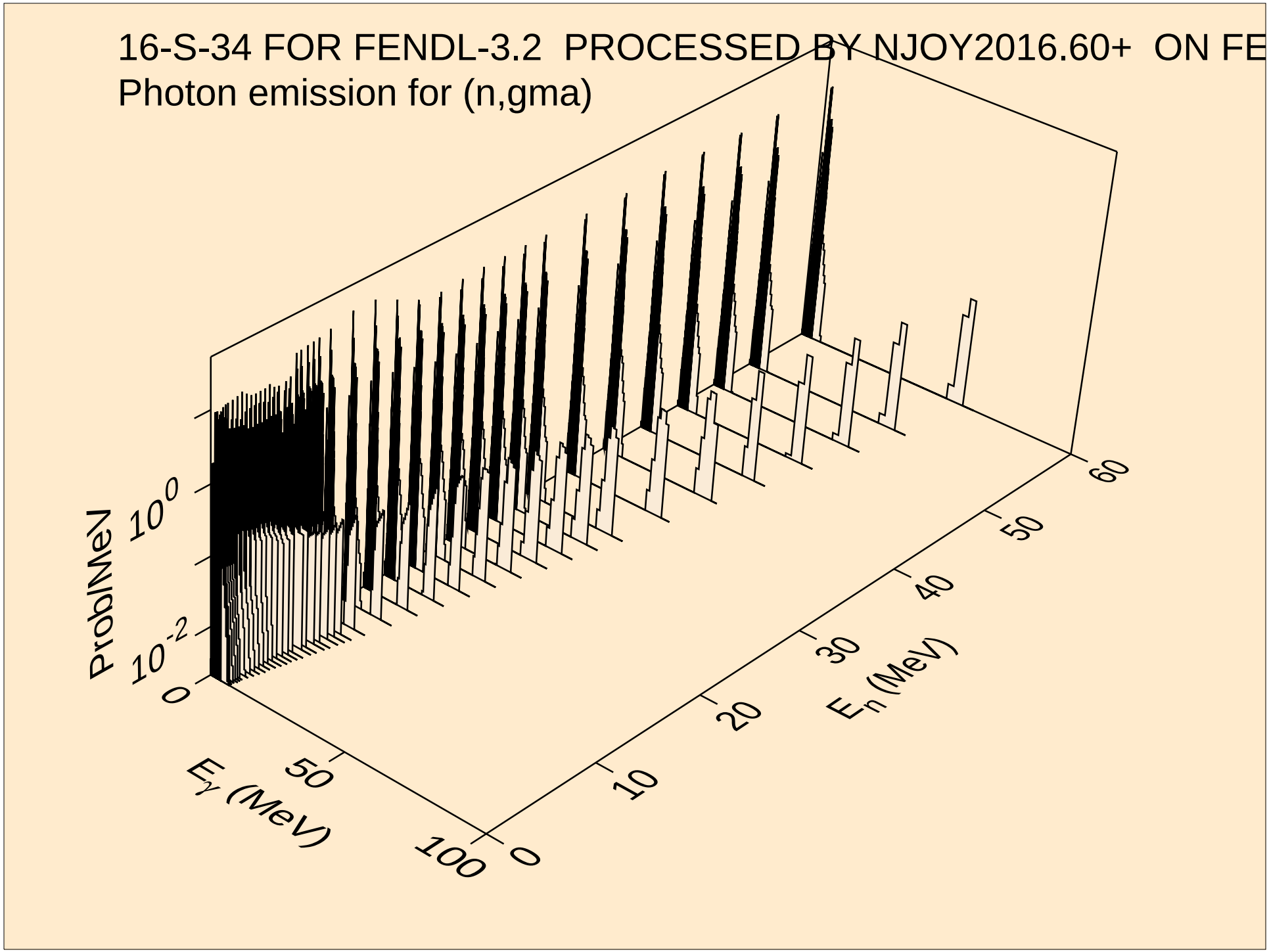

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2np)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
20
25
30
35
40
45
50
55
60
E_n (MeV)

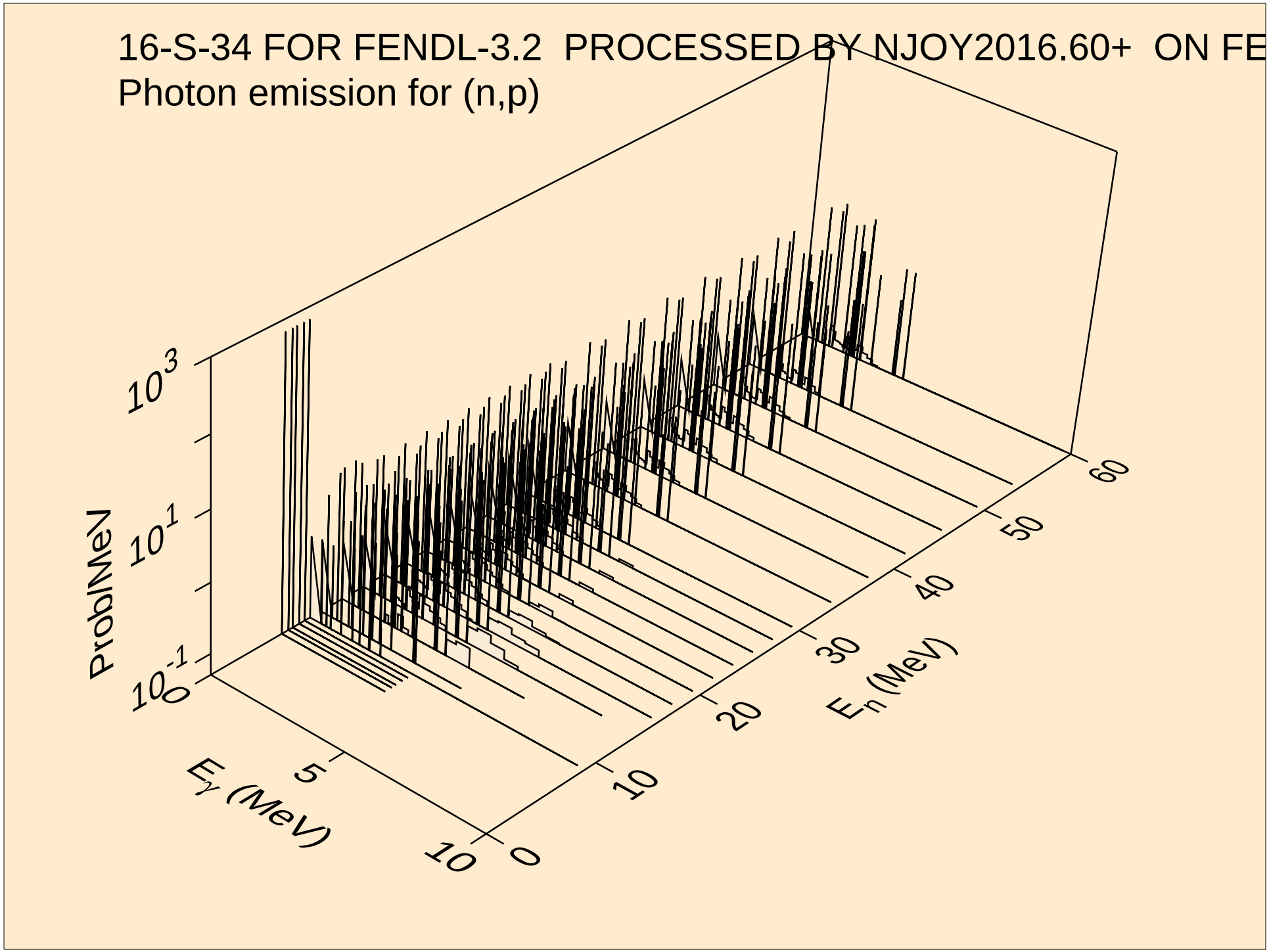

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3np)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
25
30
35
40
45
50
55
60
E_n (MeV)

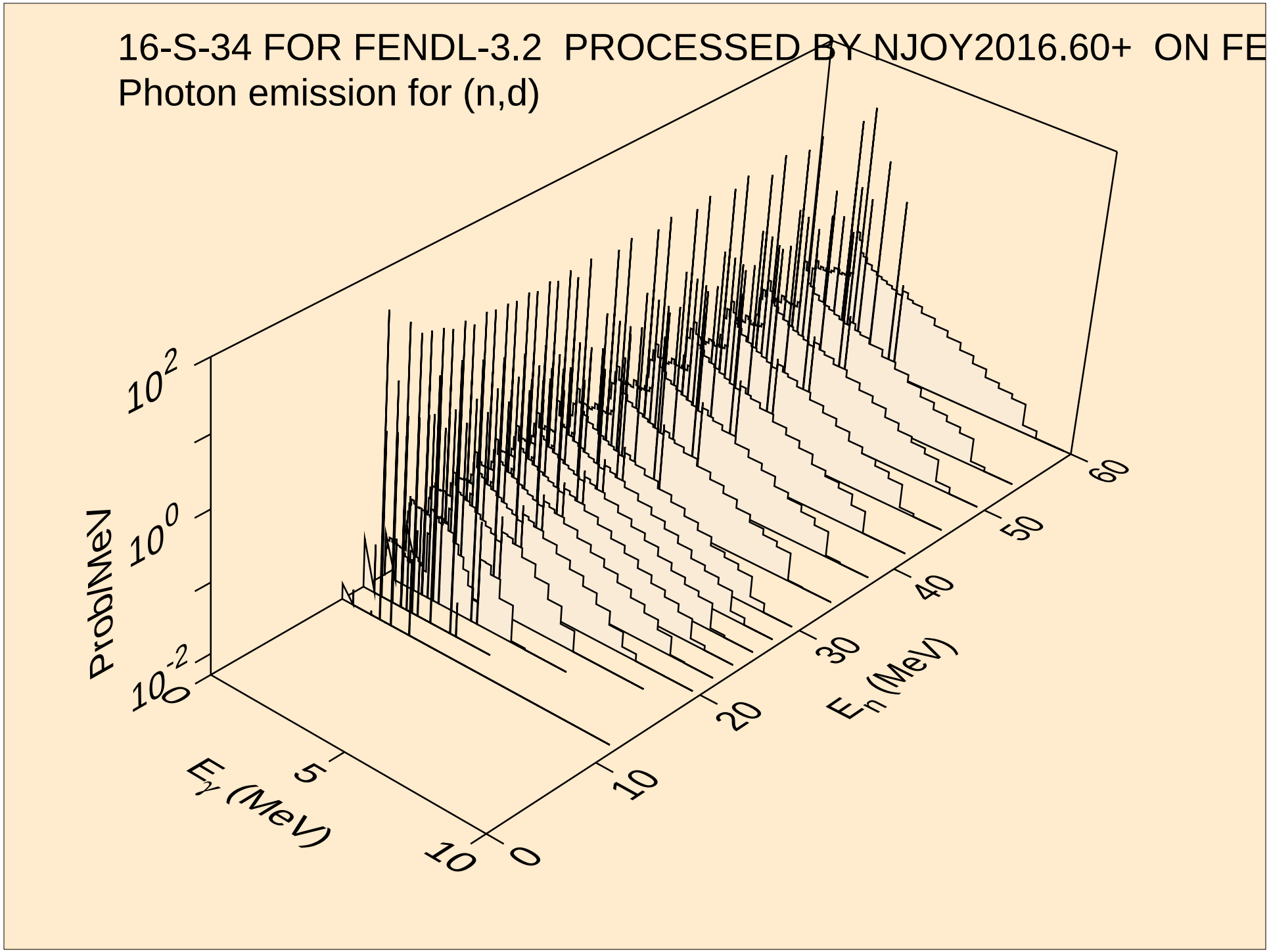

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2np)
Prob/MeV
10^2
10^0
0
E_γ (MeV)
5
10
20
25
30
35
40
45
50
55
60
E_n (MeV)

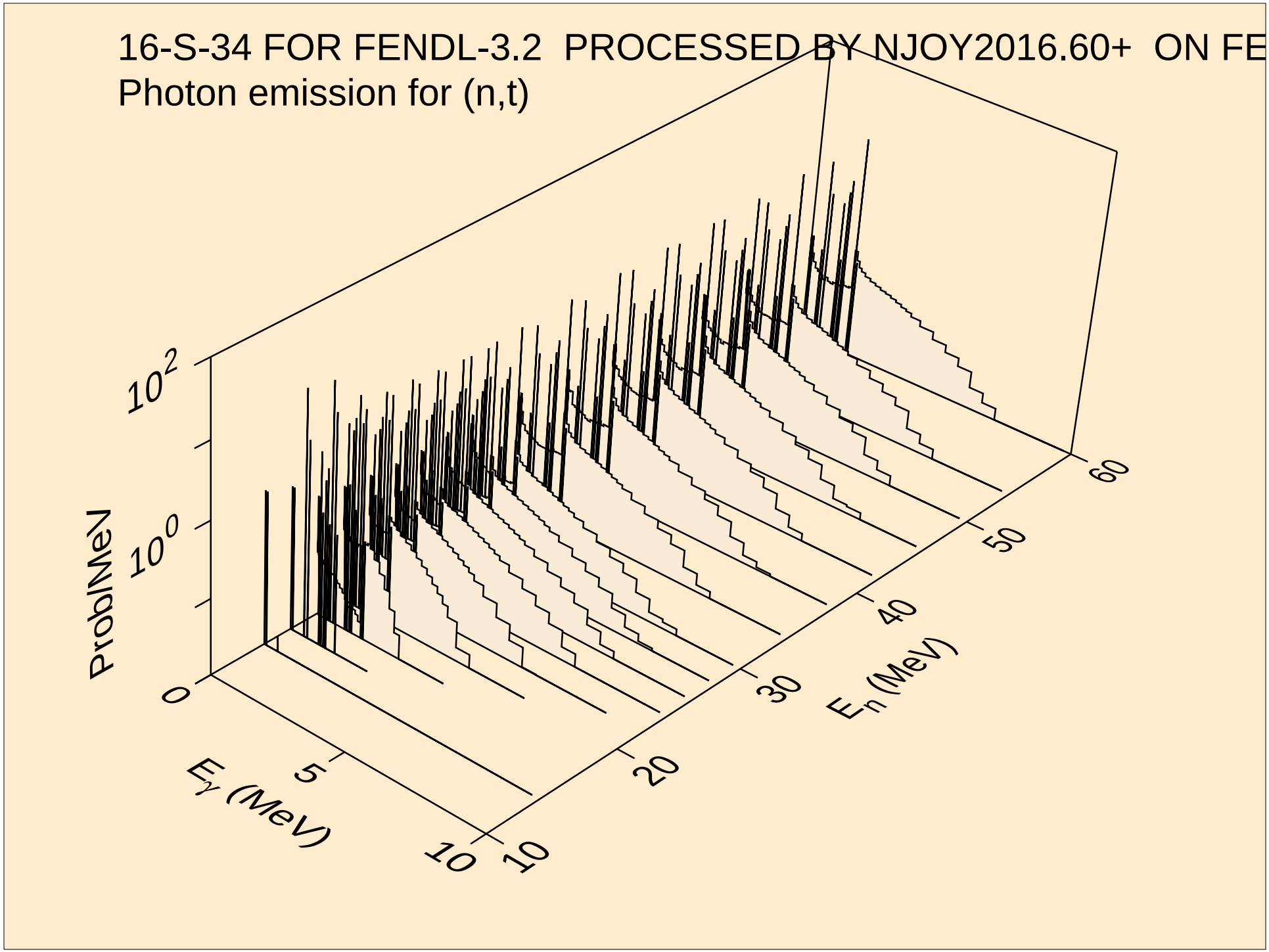

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,npa)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
20
25
30
35
40
45
50
55
60
E_n (MeV)

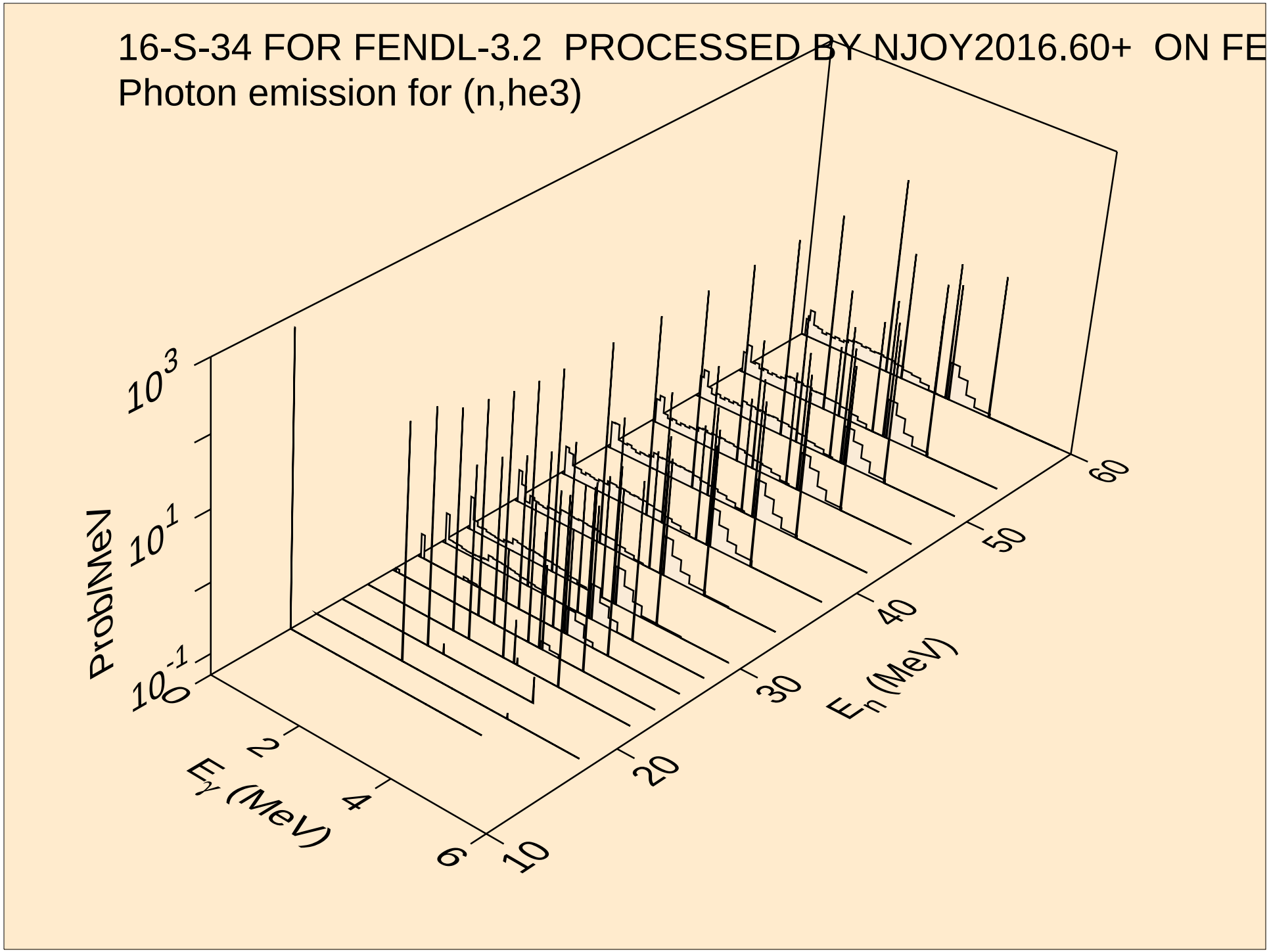

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n*c)
Prob/MeV
10^0
10^-2
0
10
20
E_γ (MeV)
0
10
20
30
40
50
60
E_n (MeV)

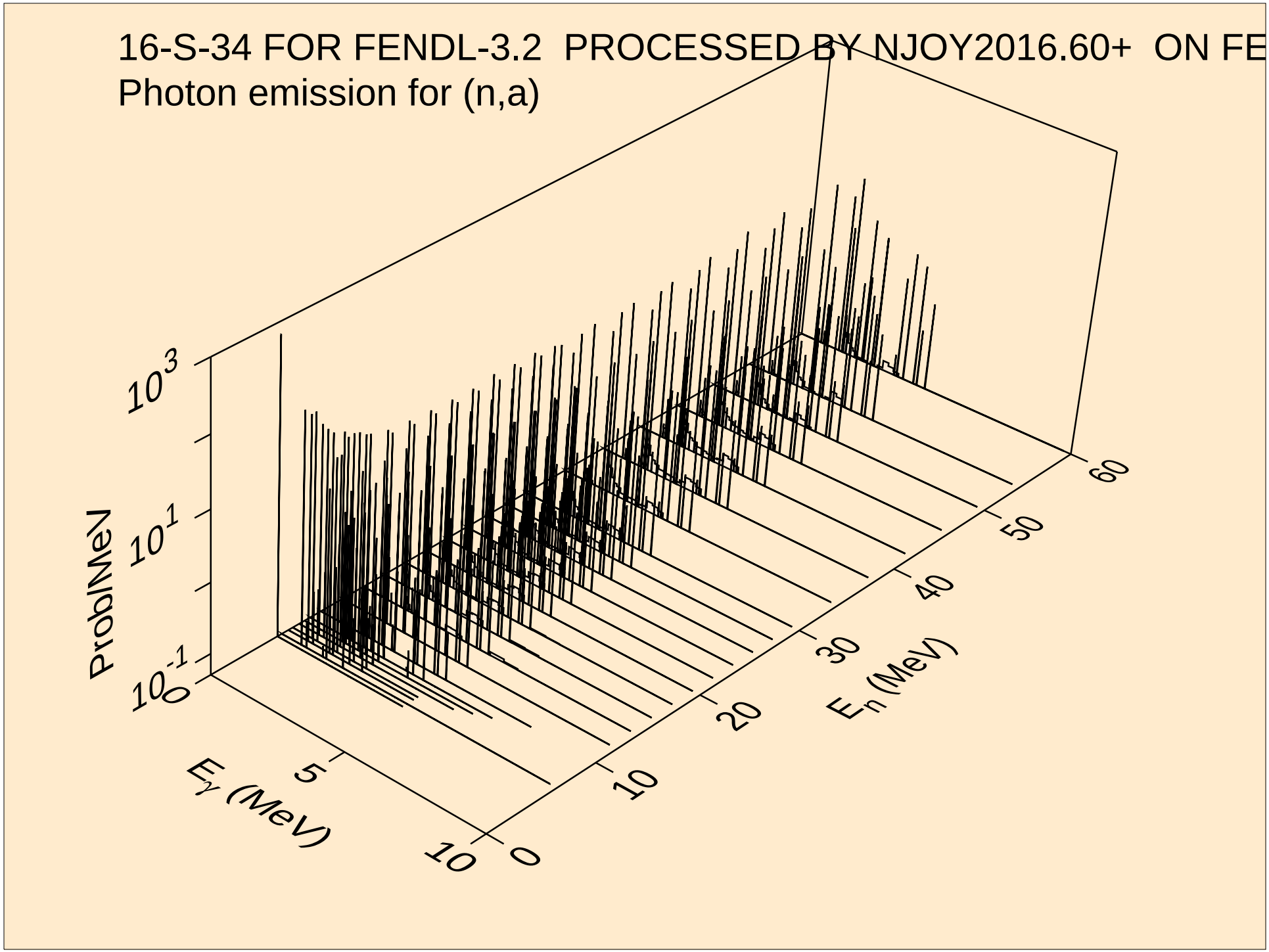

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,gma)
Prob/MeV
10^0
10^-2
0
50
100
Eγ (MeV)
0
10
20
30
40
50
60
En (MeV)

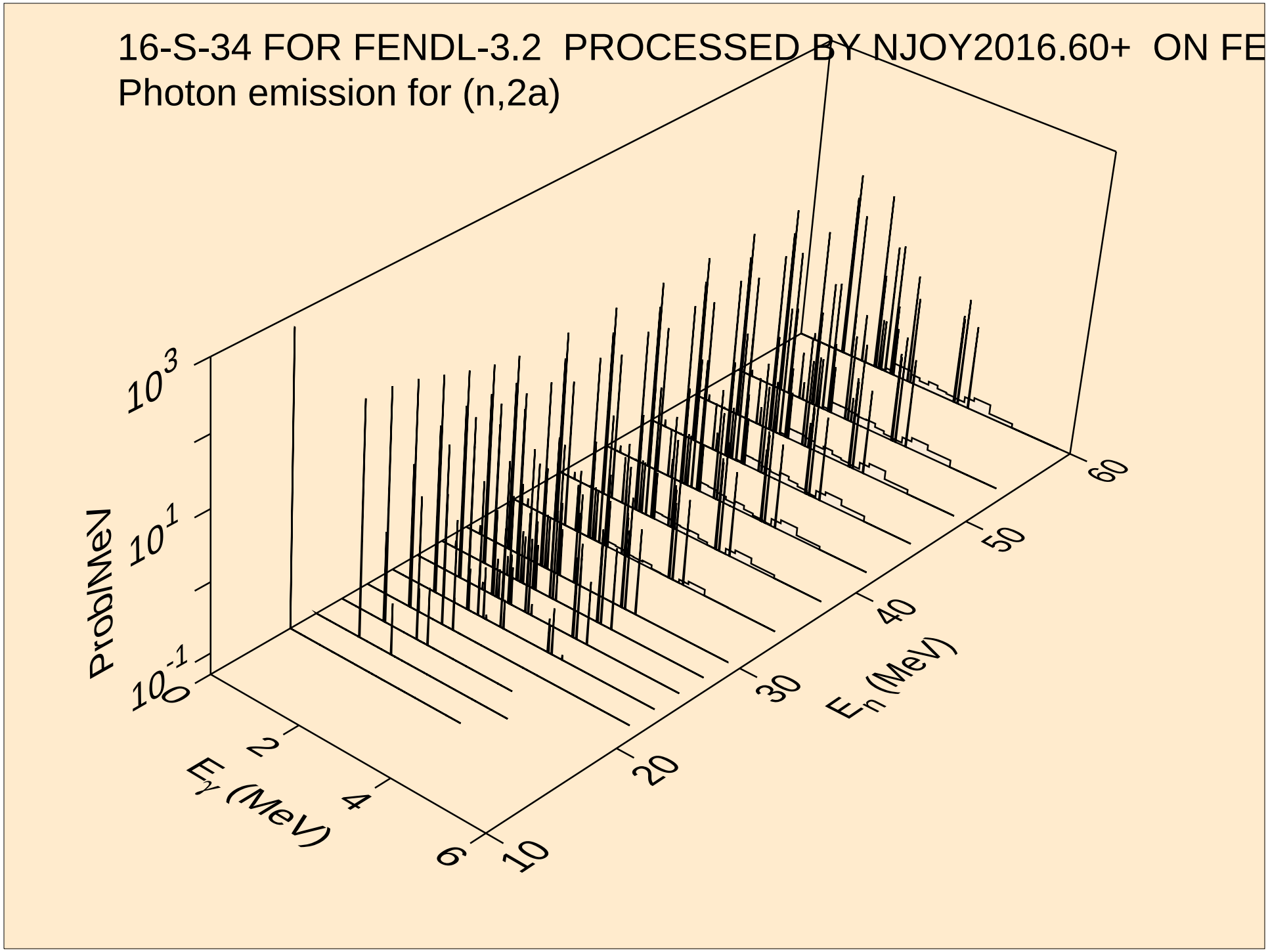

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,p)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
0
10
20
30
40
50
60
E_n (MeV)

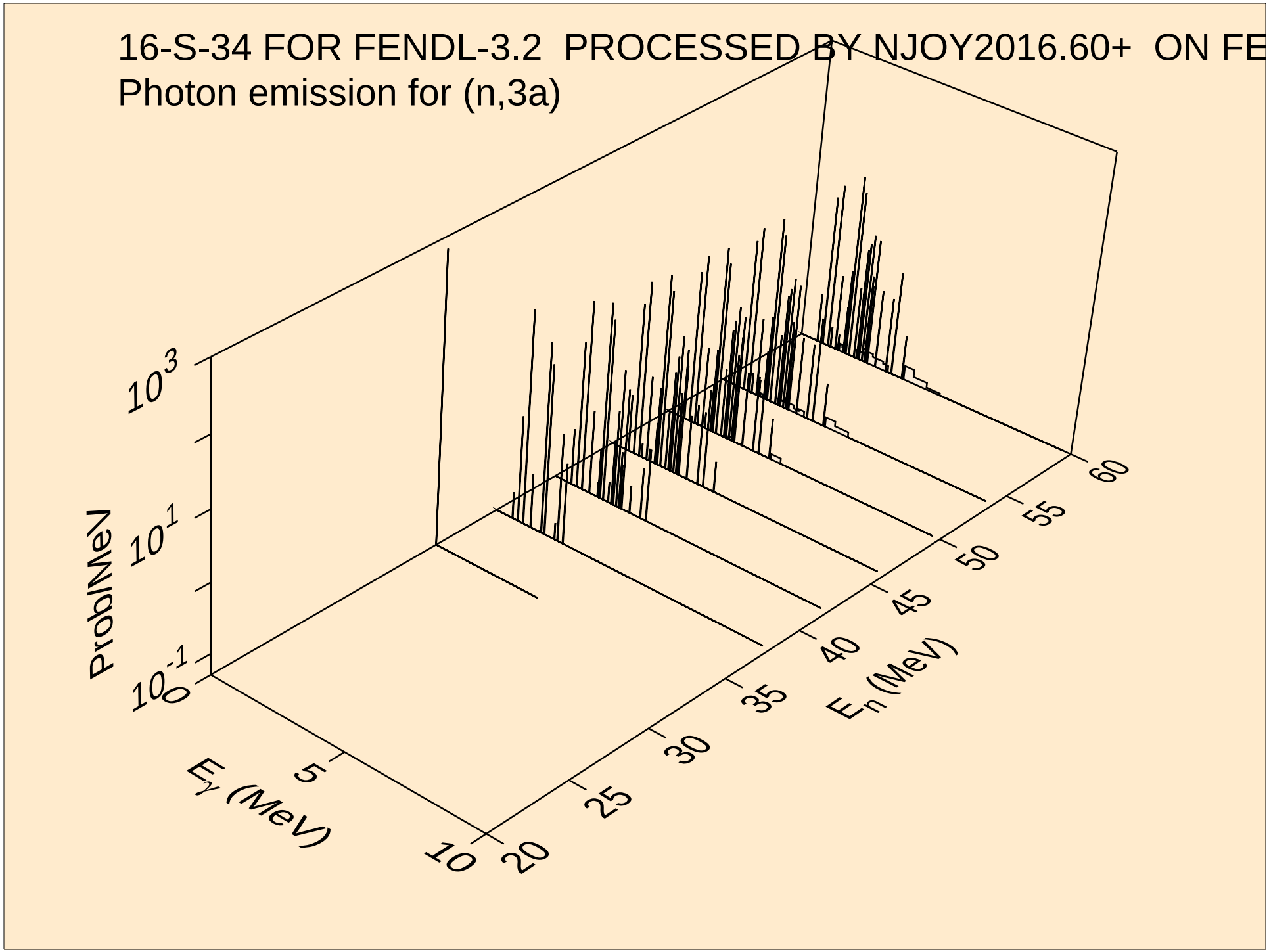

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,d)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
0
10
20
30
40
50
60
E_n (MeV)

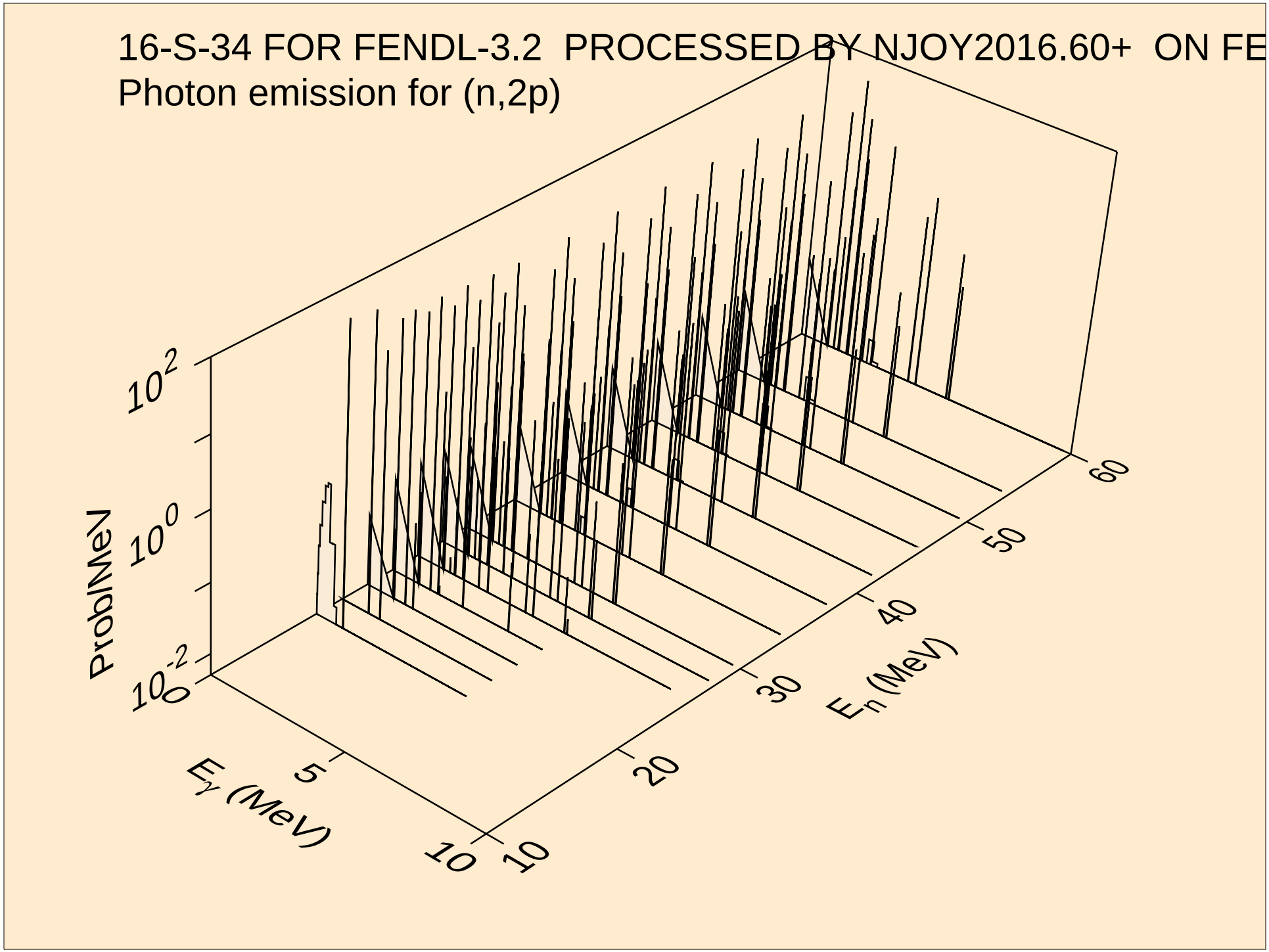

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,t)
Prob/MeV
10^2
10^0
0
E_γ (MeV)
5
10
10
20
30
40
50
60
E_n (MeV)

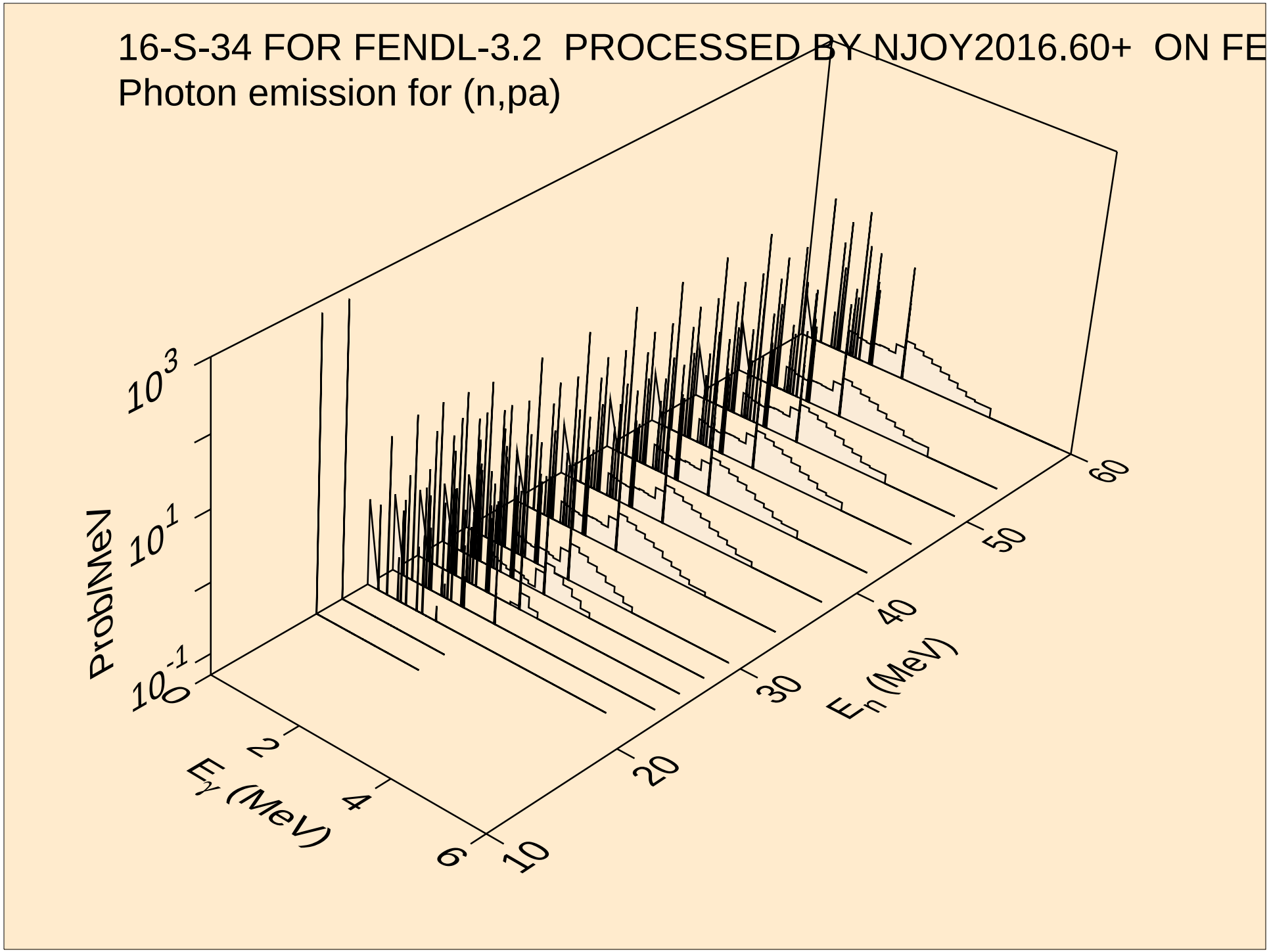

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,he3)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

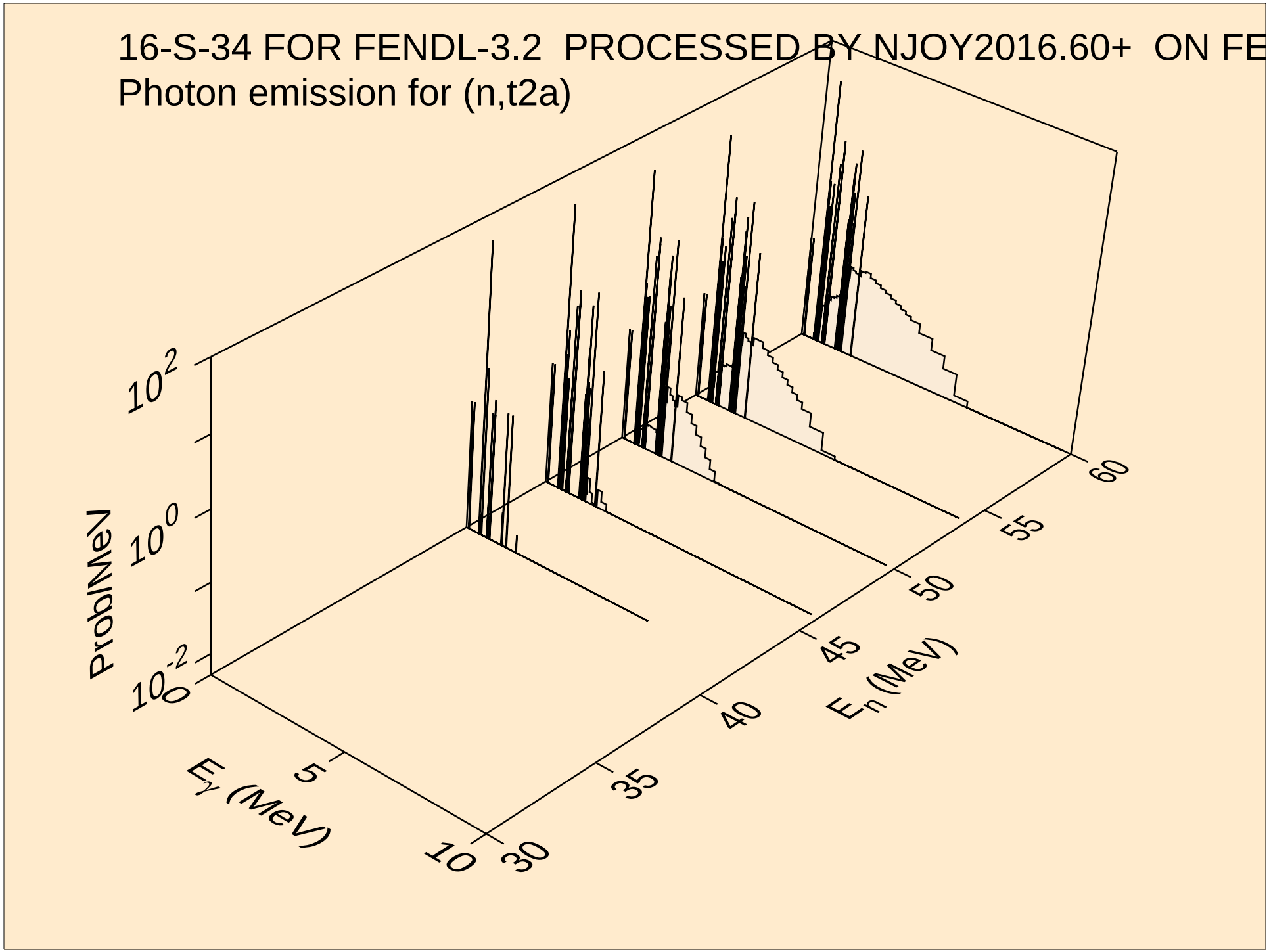

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,a)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
0
10
20
30
40
50
60
E_n (MeV)

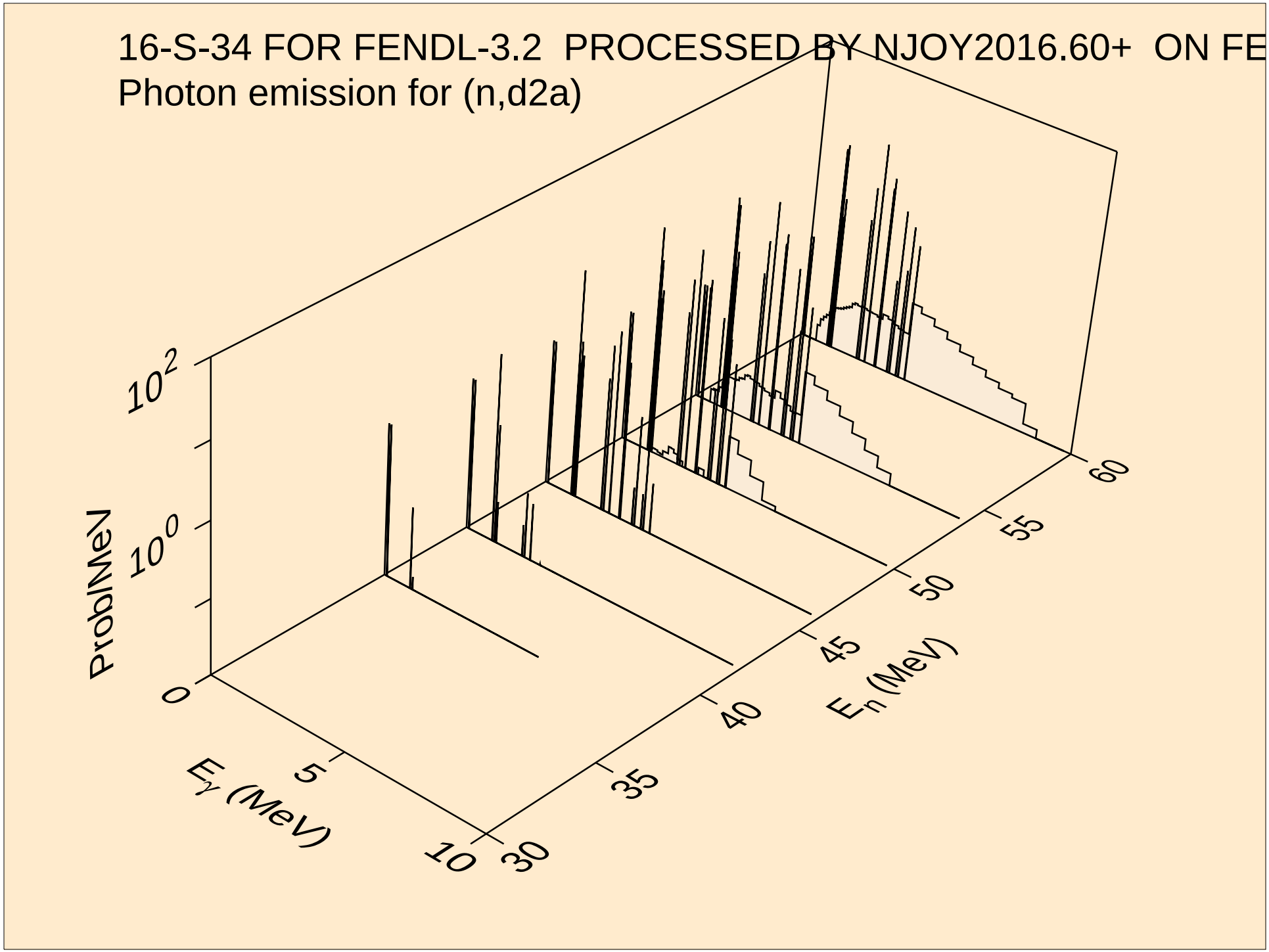

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2a)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

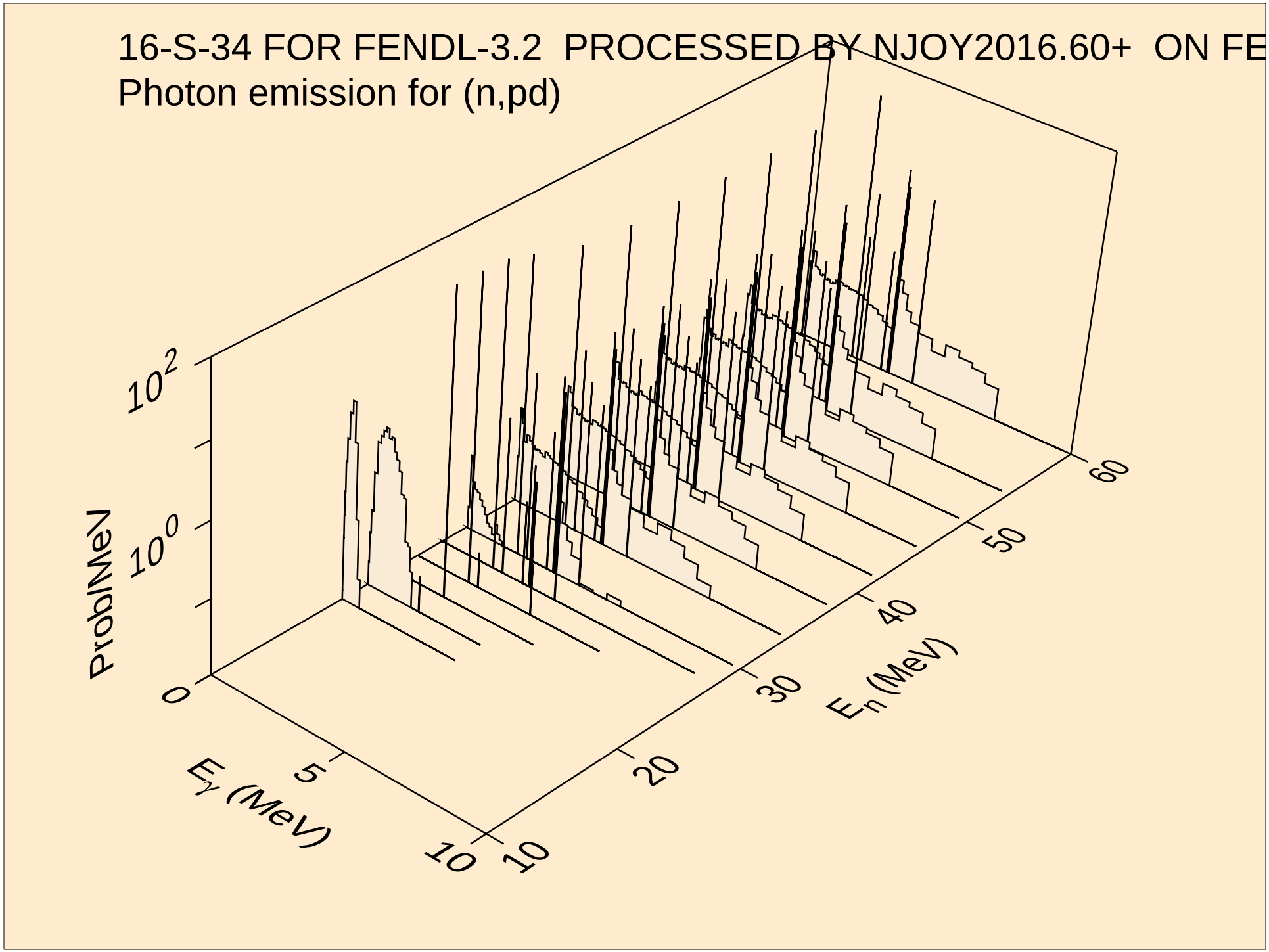

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3a)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
20
25
30
35
40
45
50
55
60
E_n (MeV)

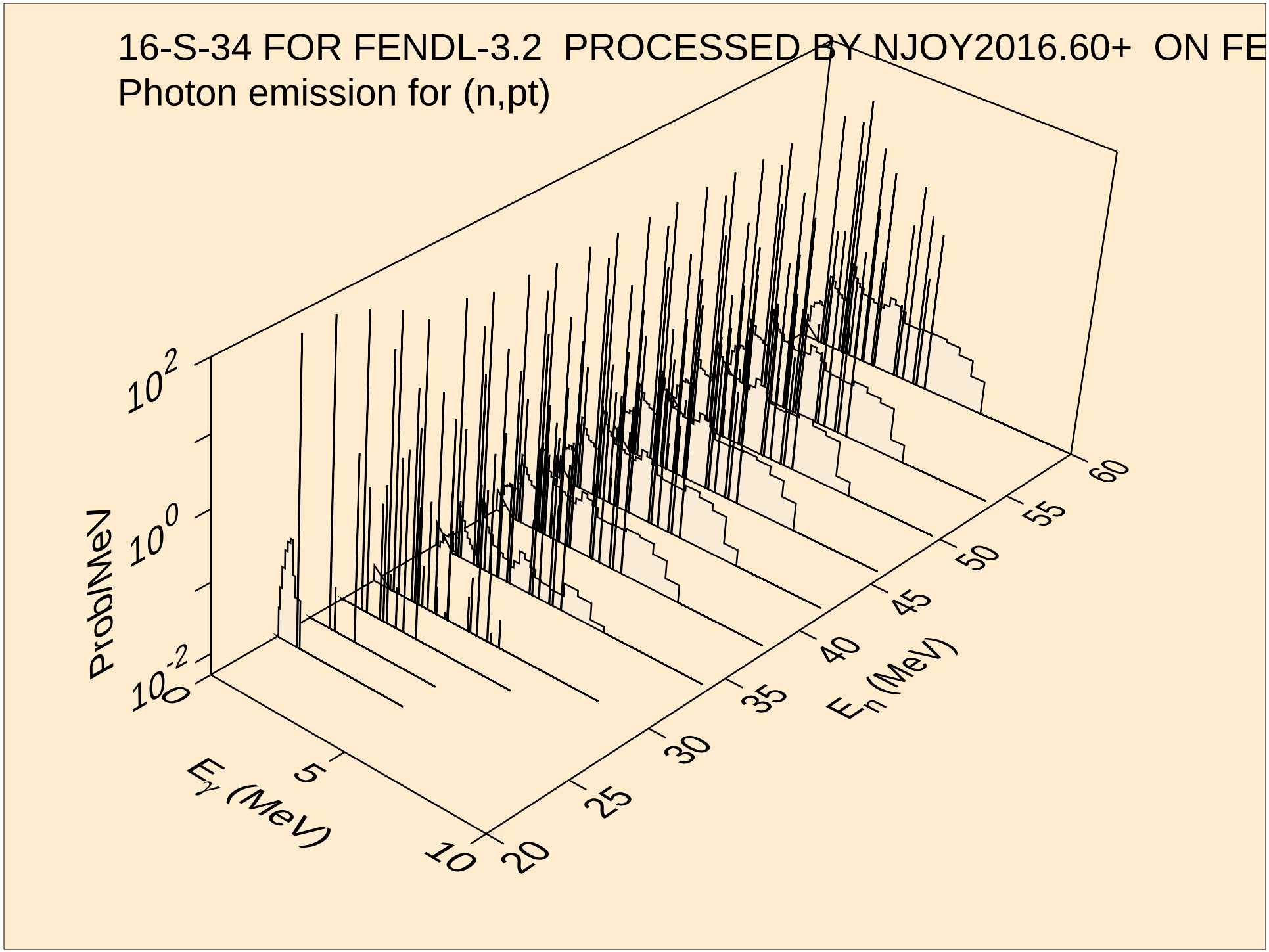

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

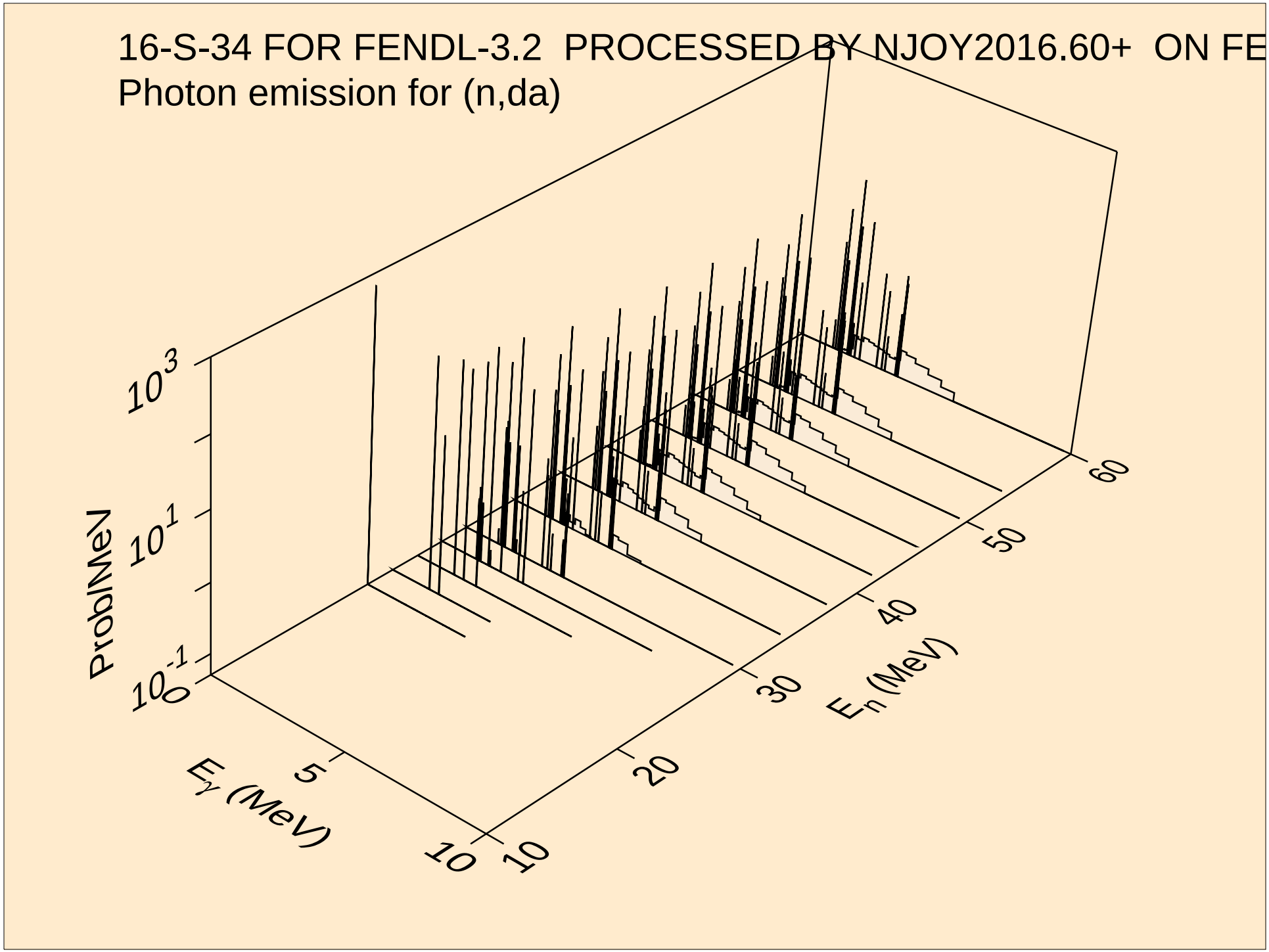

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,pa)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

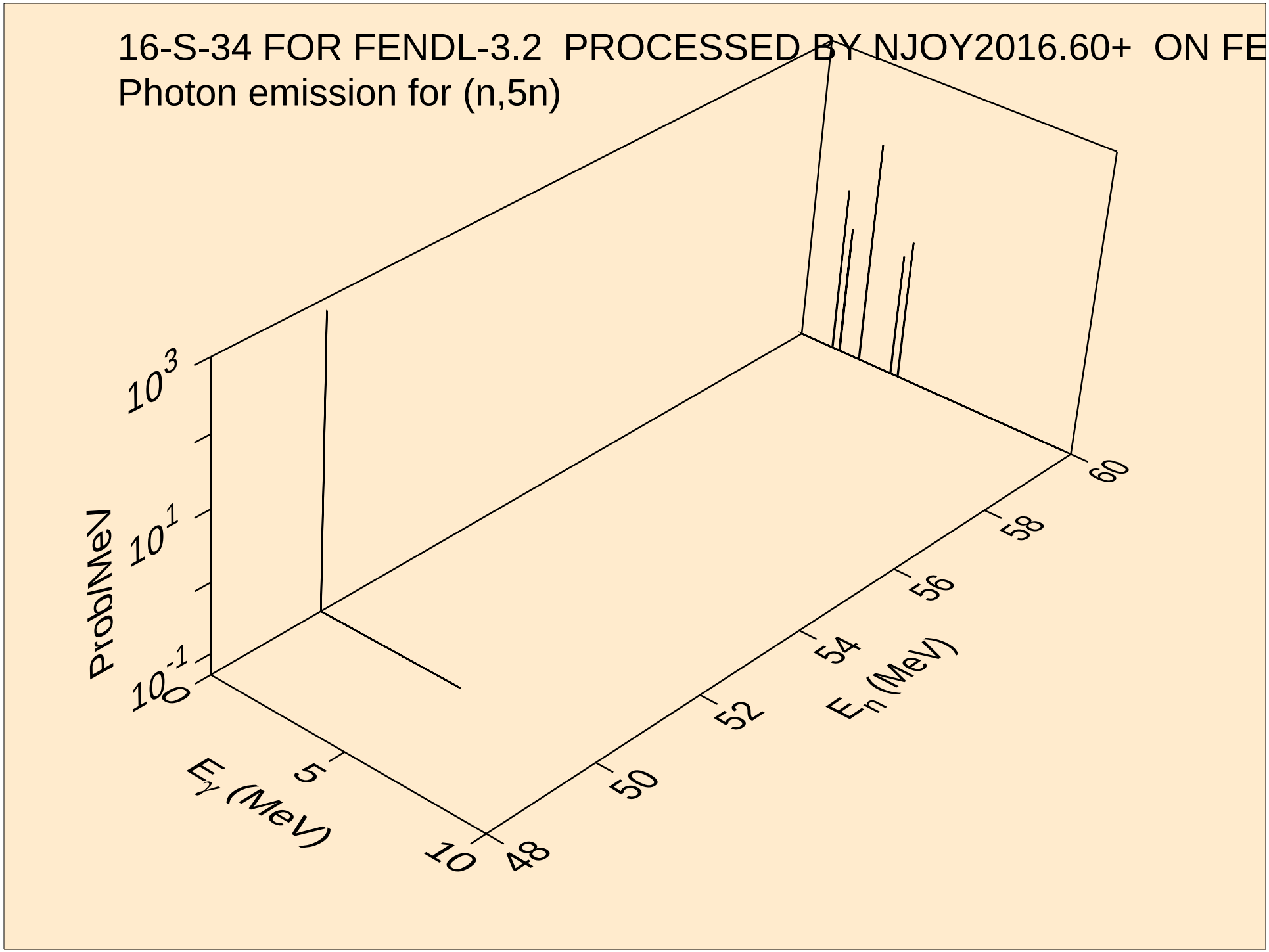

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,t2a)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
30
35
40
45
50
55
60
E_n (MeV)

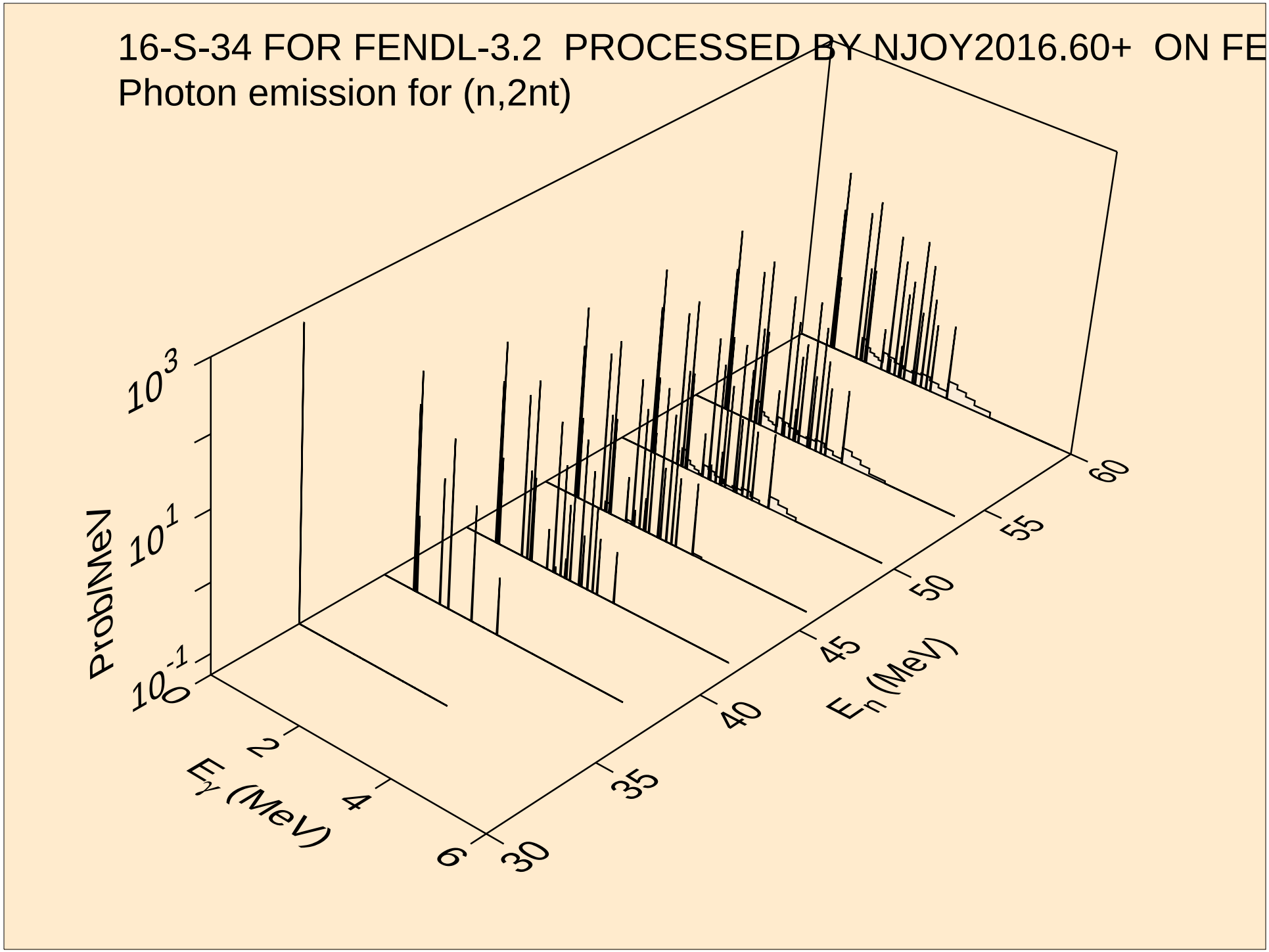

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,d2a)
Prob/MeV
10^2
10^0
0
E_γ (MeV)
5
10
30
35
40
45
50
55
60
E_n (MeV)

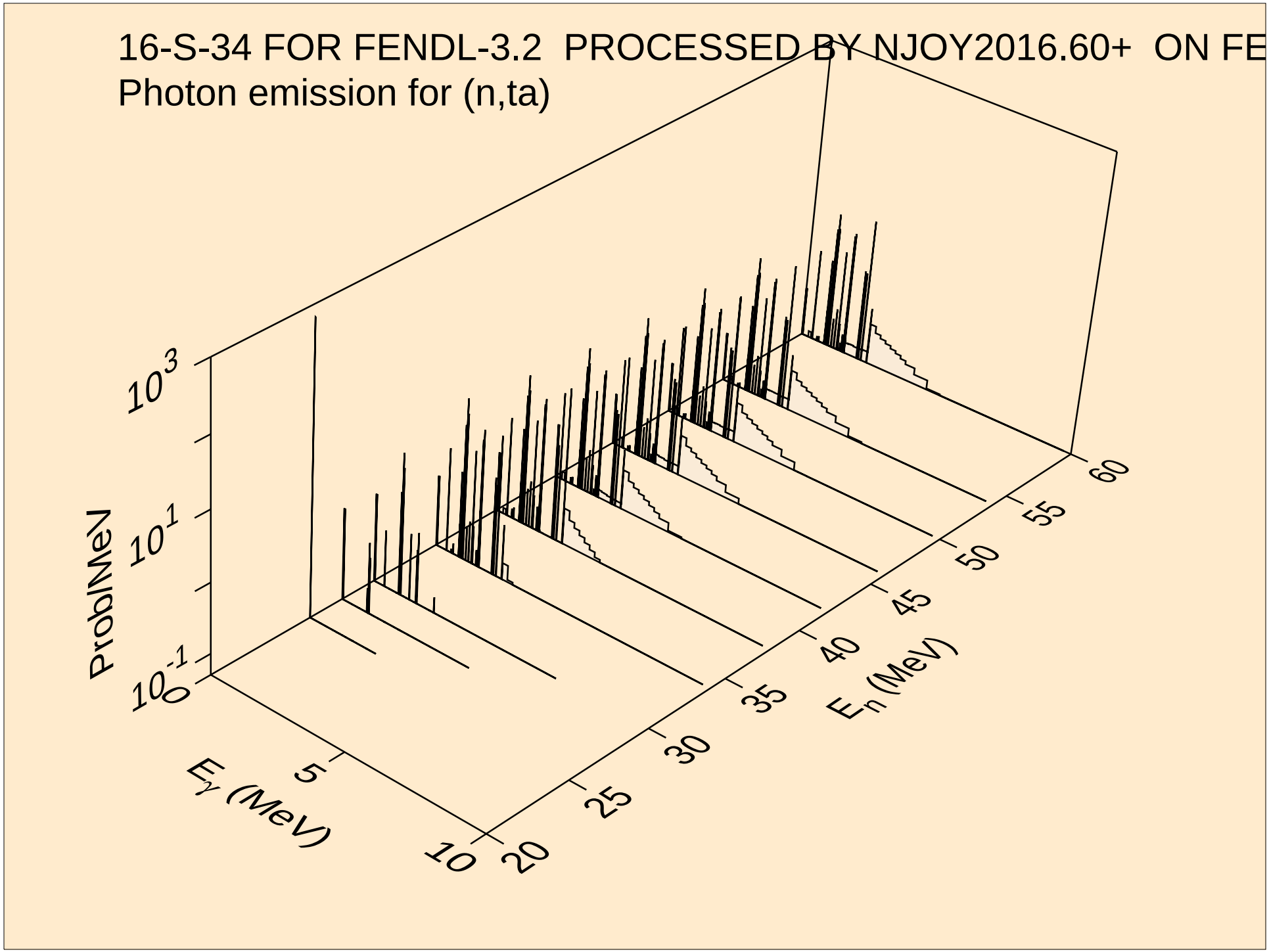

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,pd)
Prob/MeV
10^2
10^0
0
E_γ (MeV)
5
10
10
20
30
E_n (MeV)
40
50
60

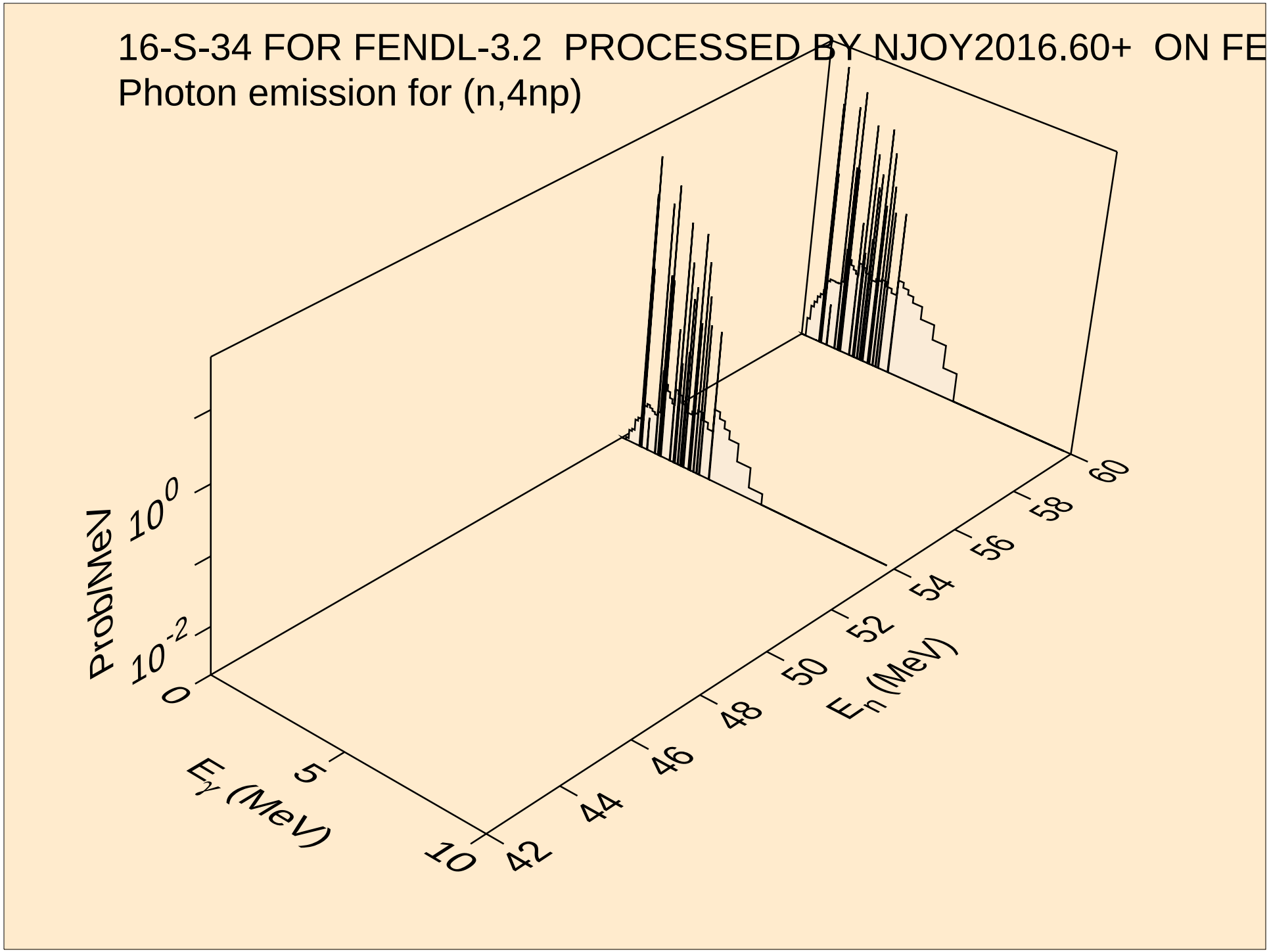

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,pt)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
20
25
30
35
40
45
50
55
60
E_n (MeV)

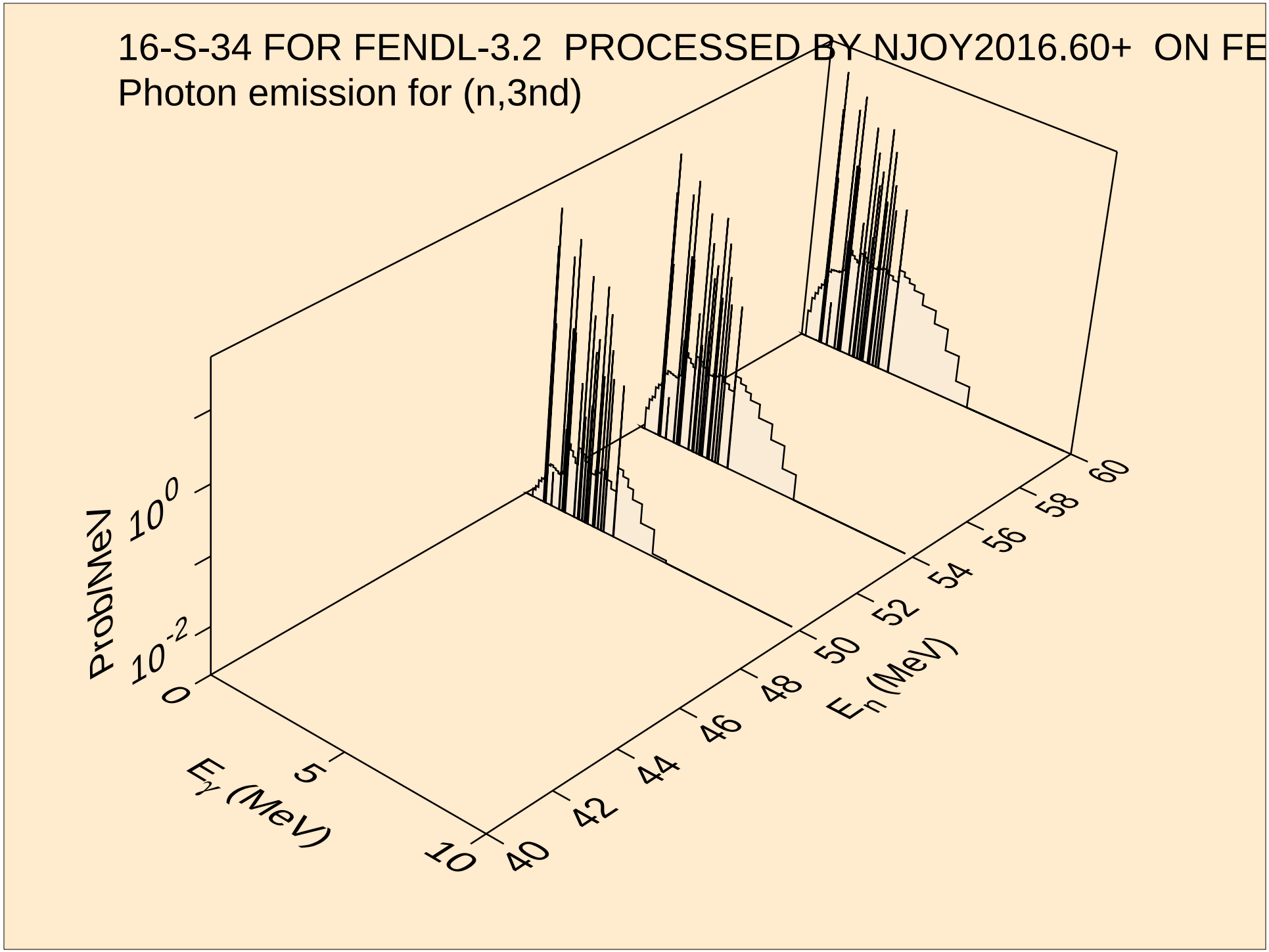

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,da)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
10
20
30
40
50
60
E_n (MeV)

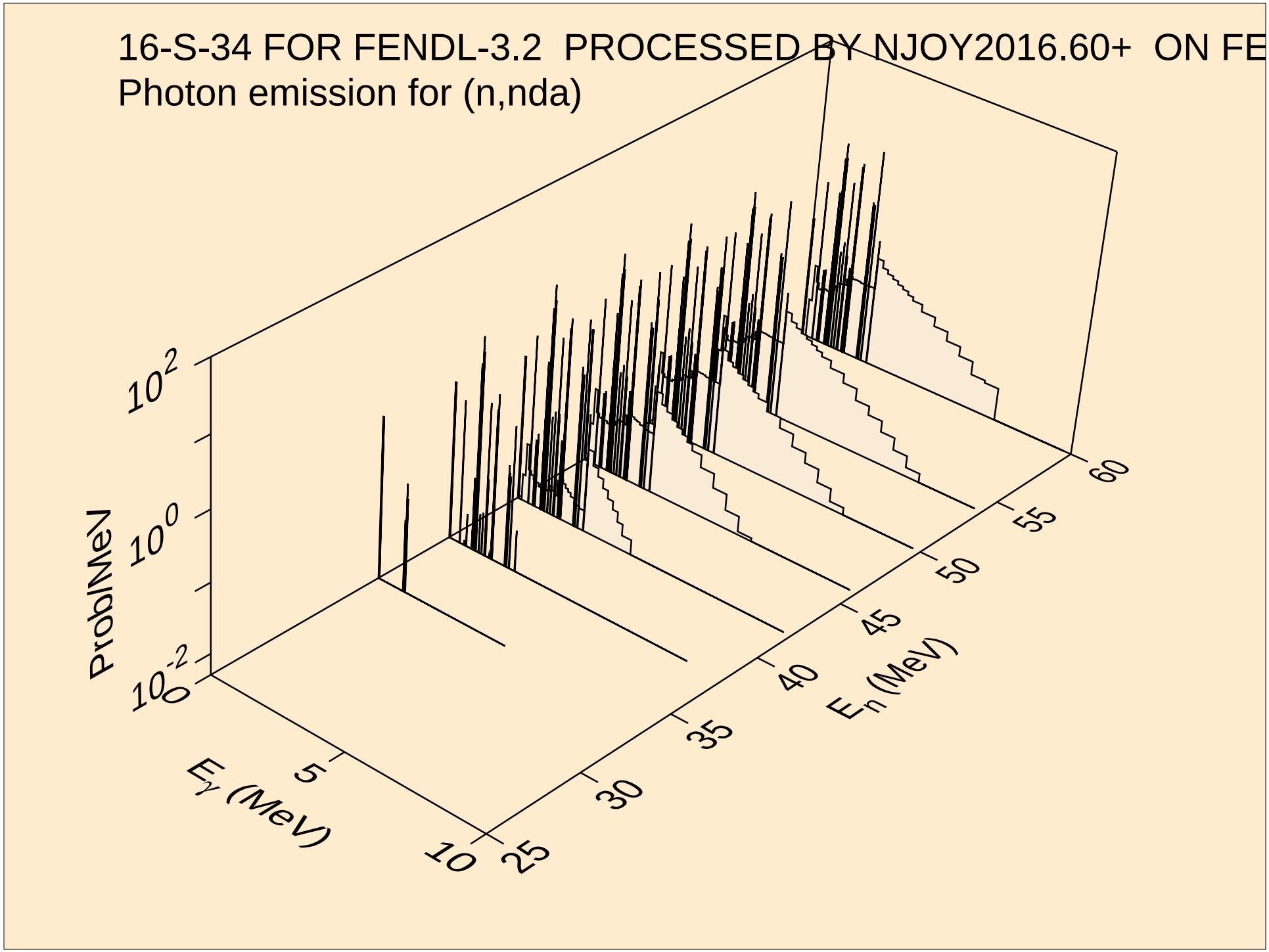

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,5n)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
48
50
52
54
56
58
60
E_n (MeV)

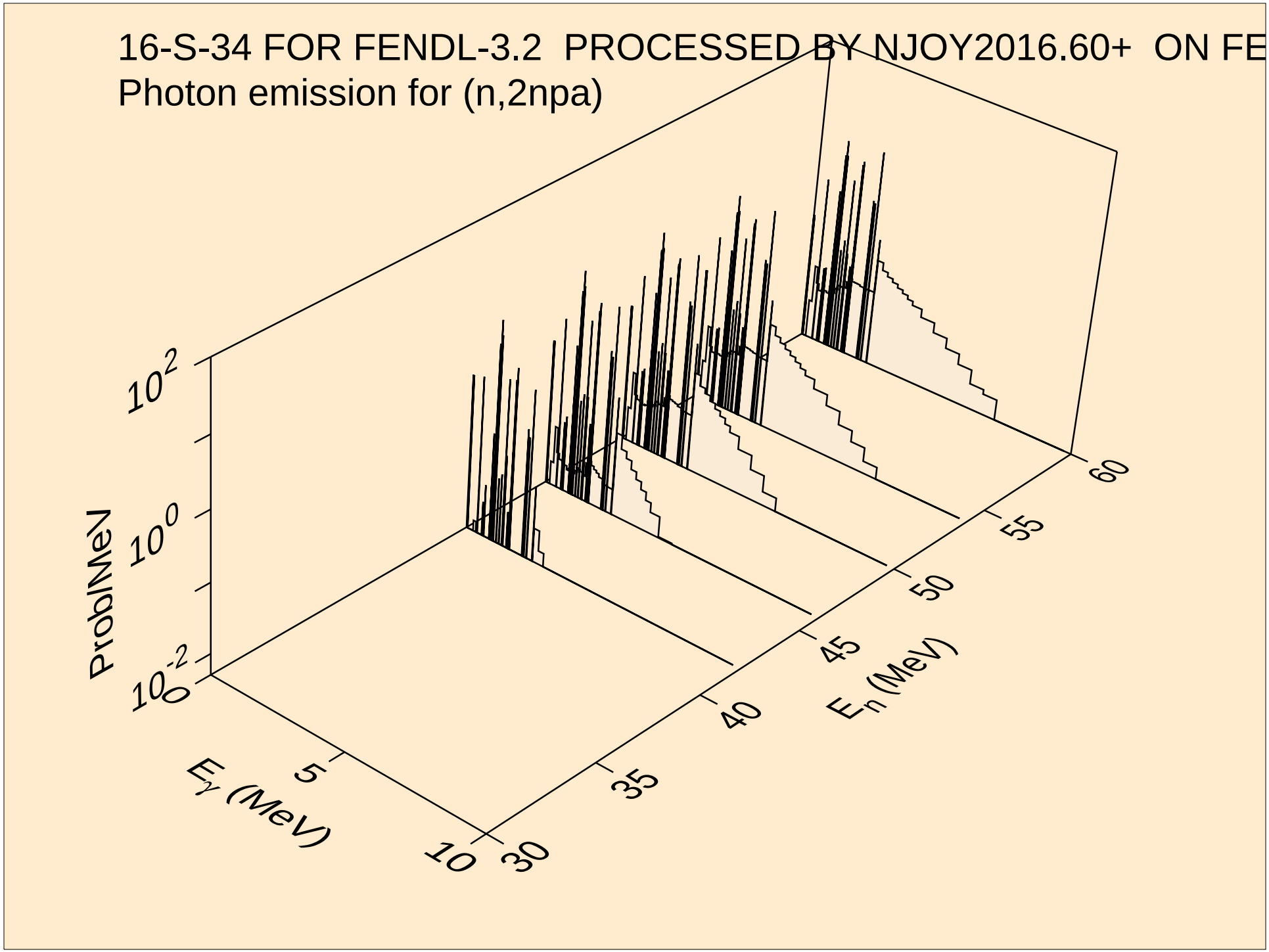

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2nt)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
30
35
40
45
50
55
60
E_n (MeV)

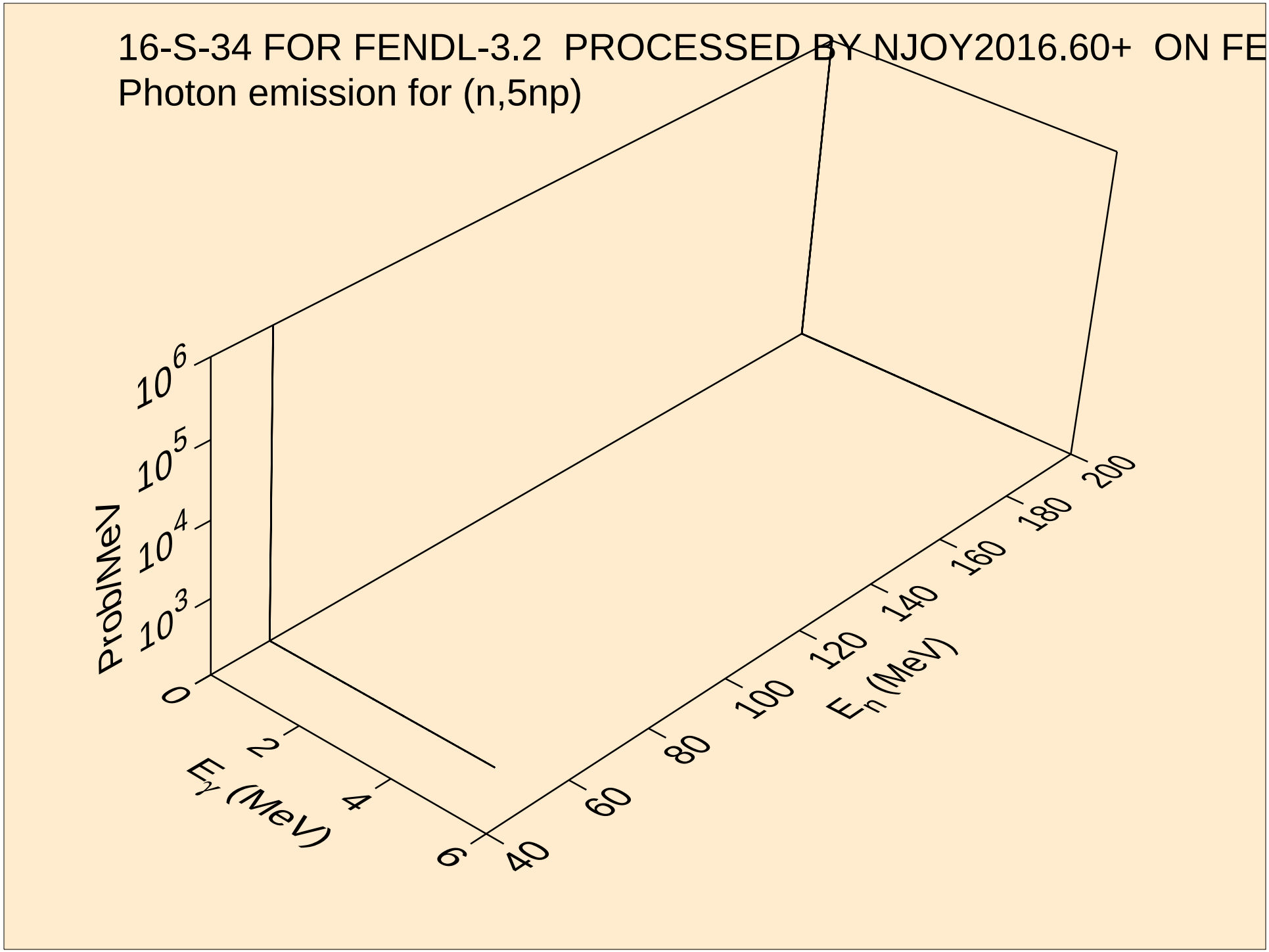

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,ta)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
20
25
30
35
40
45
50
55
60
E_n (MeV)

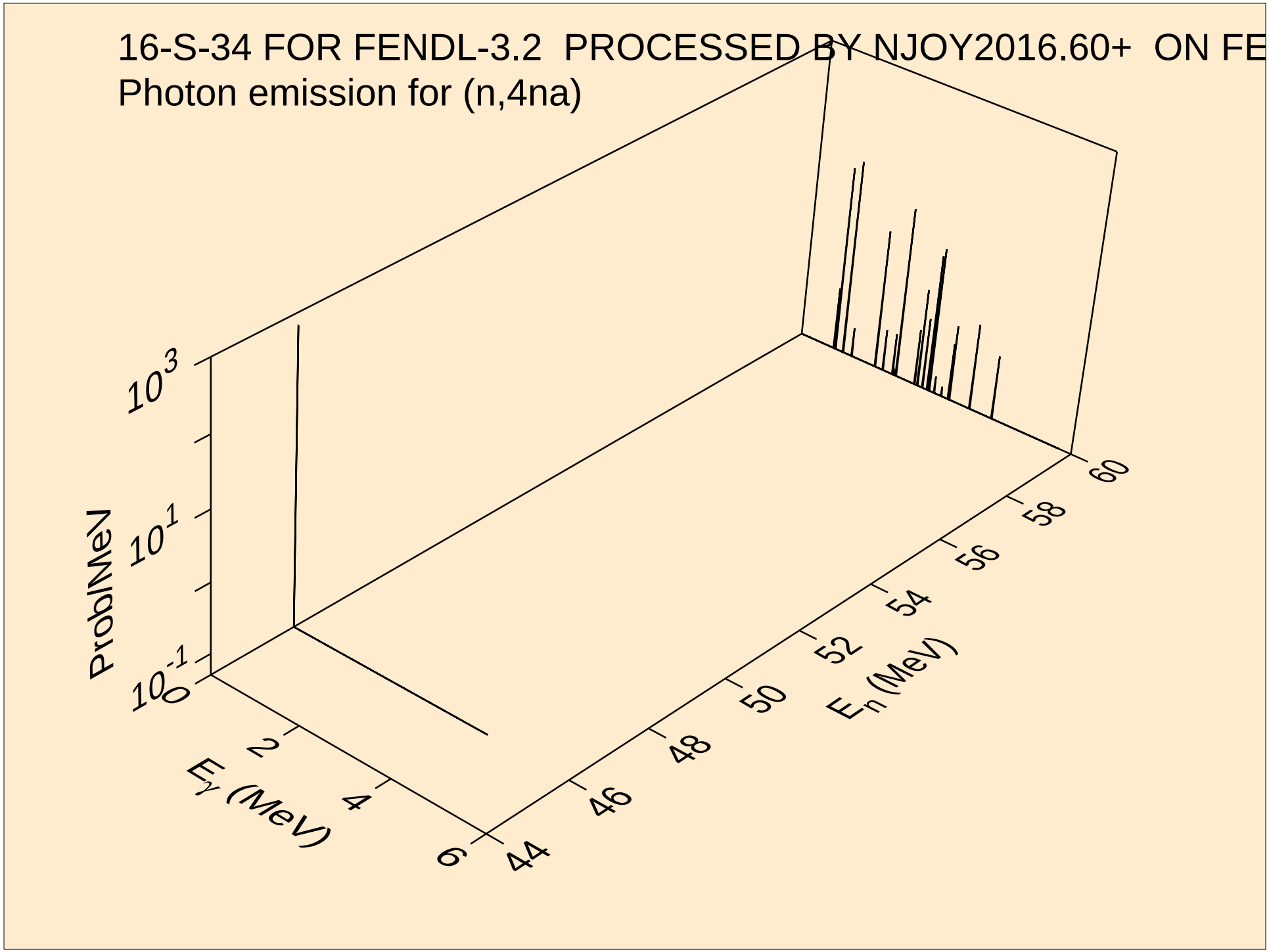

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,4np)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
42
44
46
48
50
52
54
56
58
60
E_n (MeV)

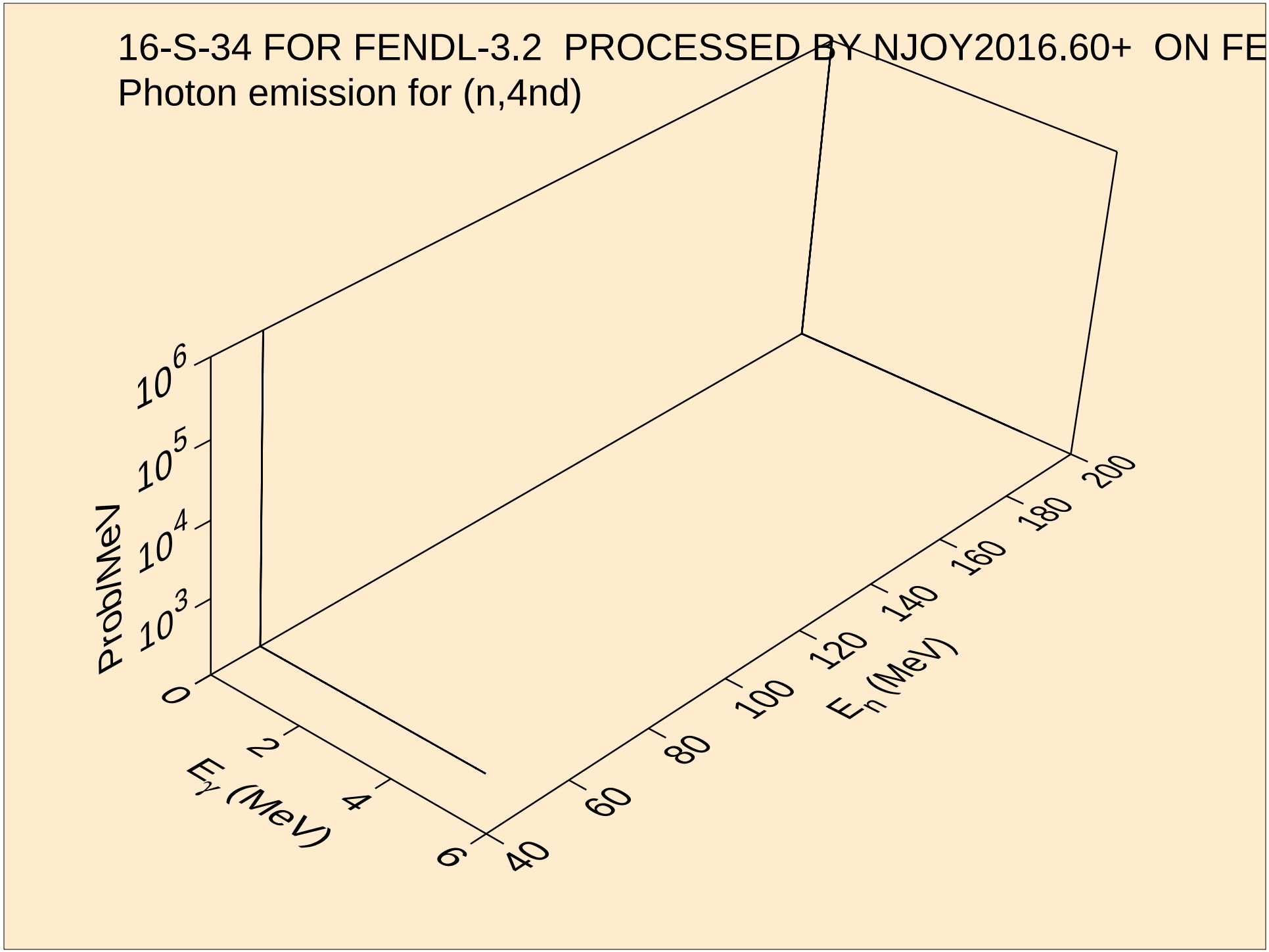

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3nd)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
40
42
44
46
48
50
52
54
56
58
60
E_n (MeV)

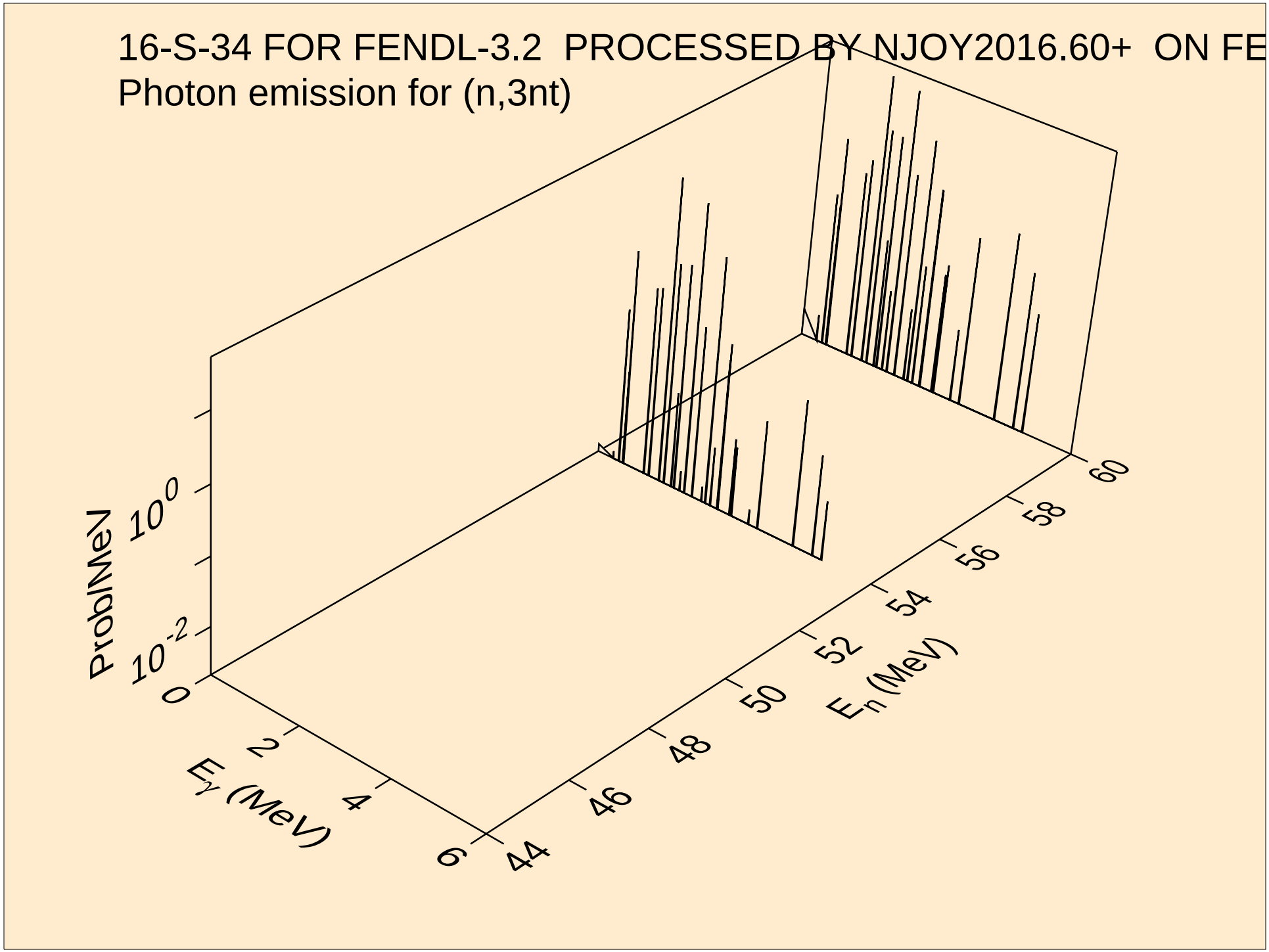

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,nda)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
25
30
35
40
45
50
55
60
E_n (MeV)

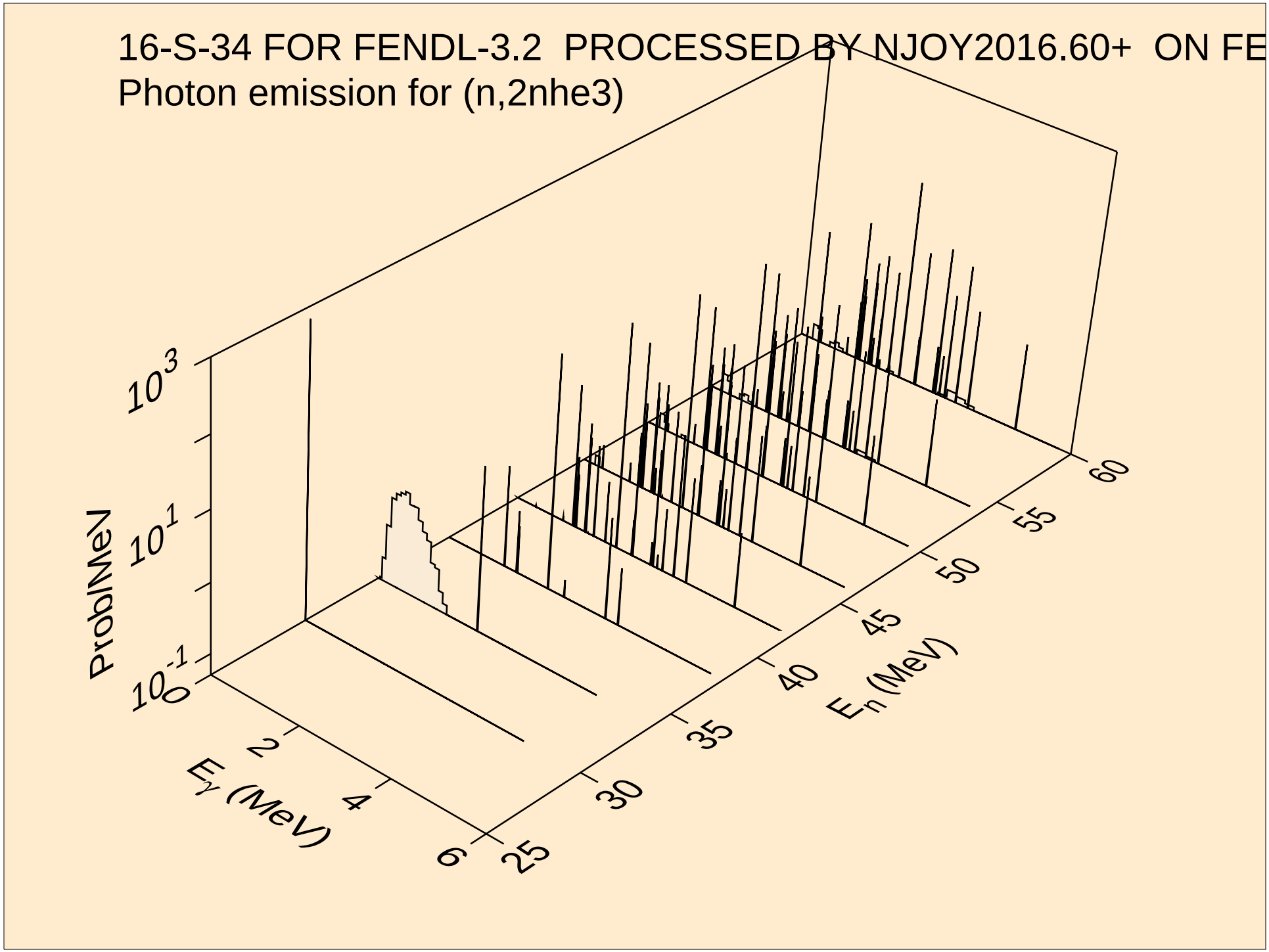

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2npa)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
5
10
30
35
40
45
50
55
60
E_n (MeV)

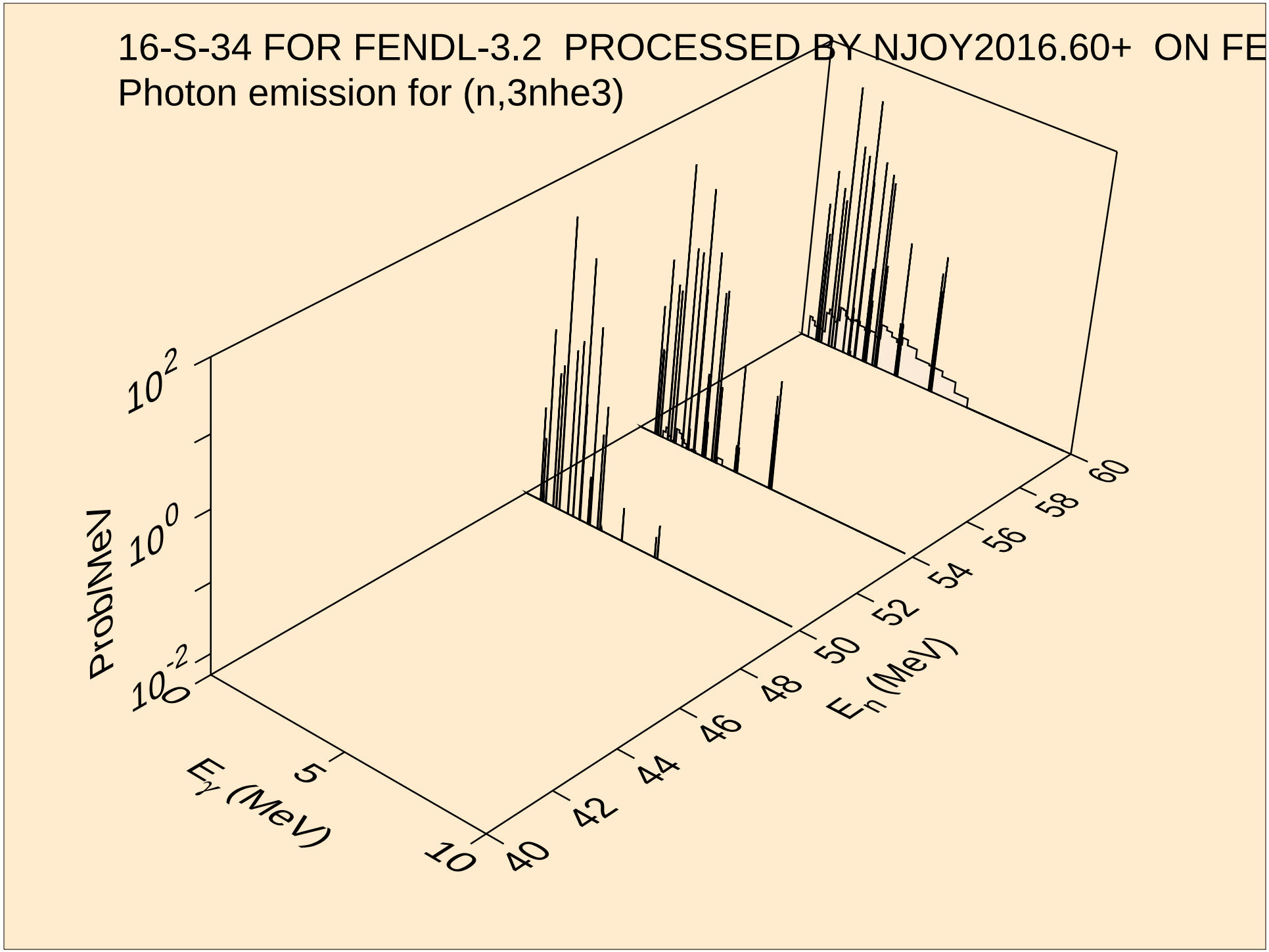

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,5np)
Prob/MeV
10^6
10^5
10^4
10^3
0
2
4
6
E_γ (MeV)
40
60
80
100
120
140
160
180
200
E_n (MeV)

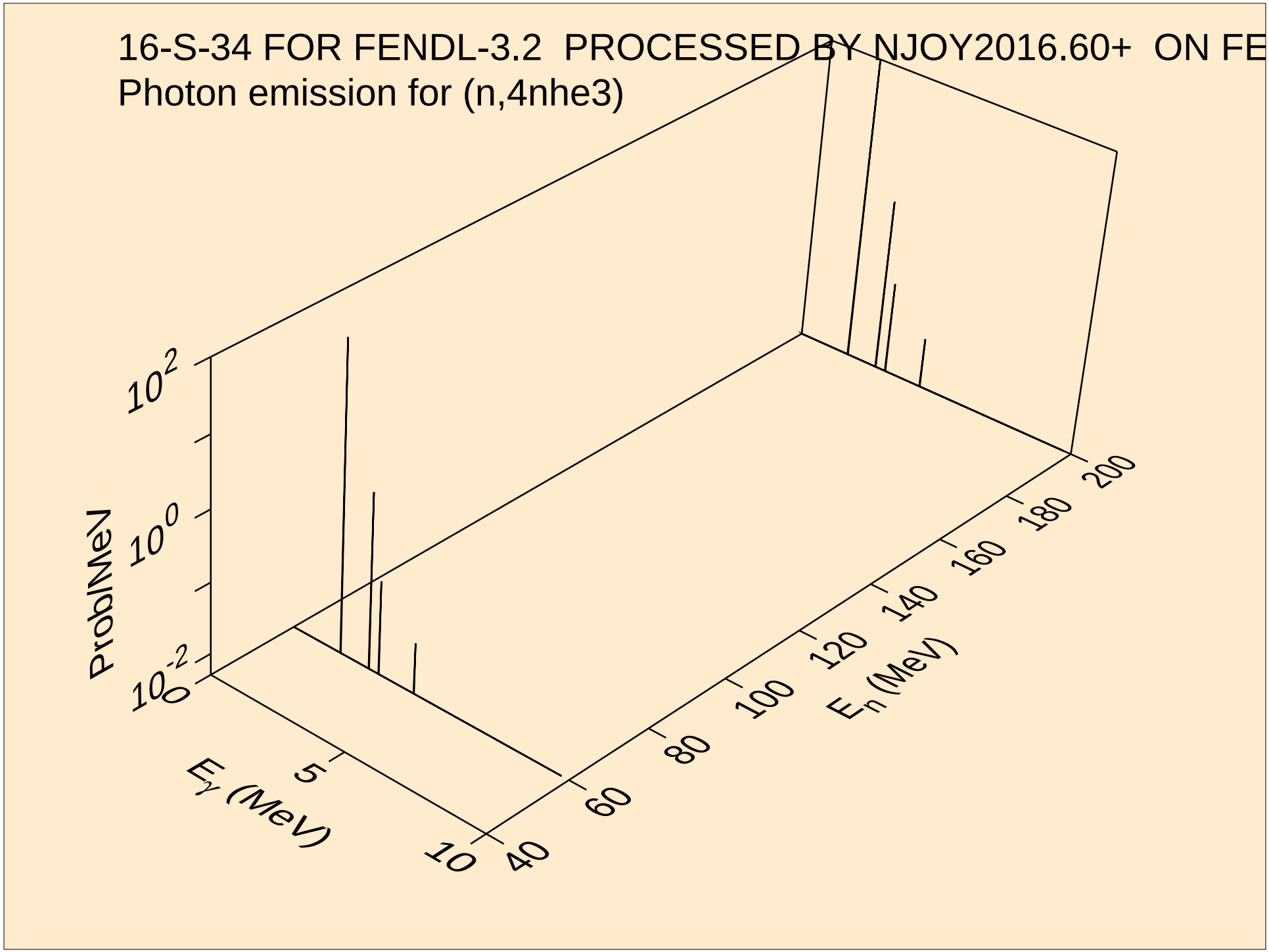

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,4na)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
44
46
48
50
52
54
56
58
60
E_n (MeV)

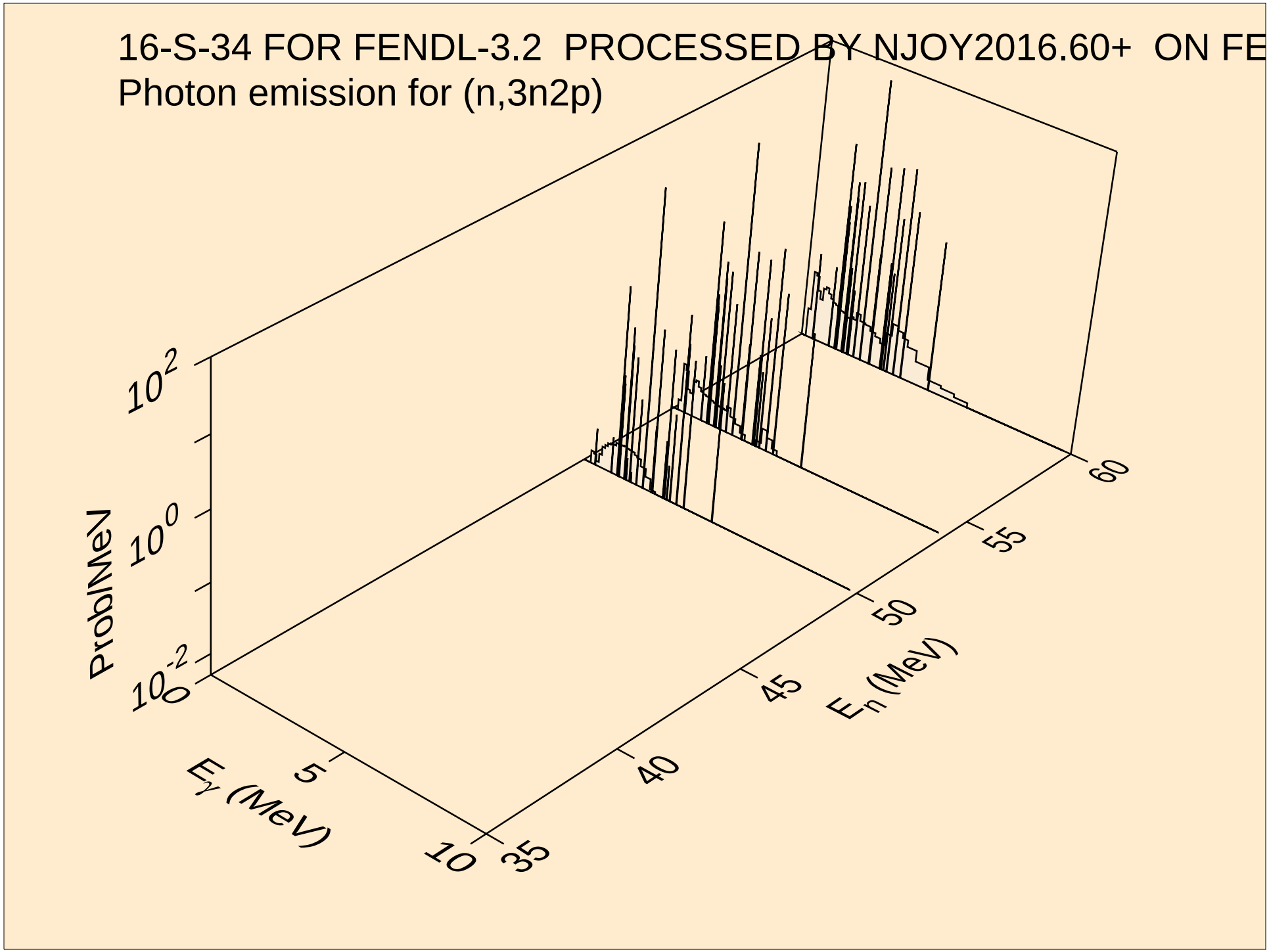

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,4nd)
Prob/MeV
10^6
10^5
10^4
10^3
0
2
4
6
E_γ (MeV)
40
60
80
100
120
140
160
180
200
E_n (MeV)

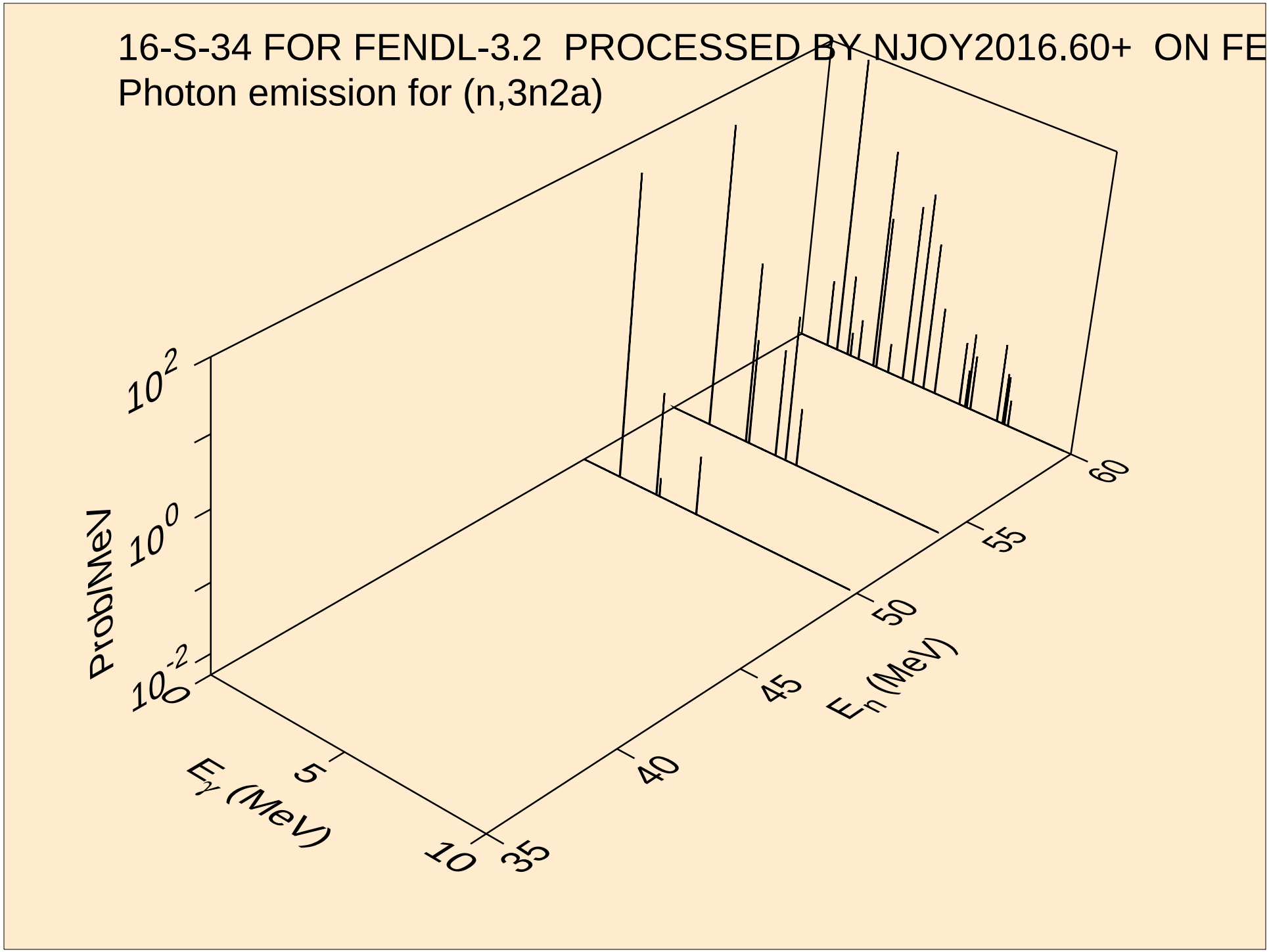

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3nt)
Prob/MeV
10^{0}
10^{-2}
0
2
4
6
E_γ (MeV)
44
46
48
50
52
54
56
58
60
E_n (MeV)

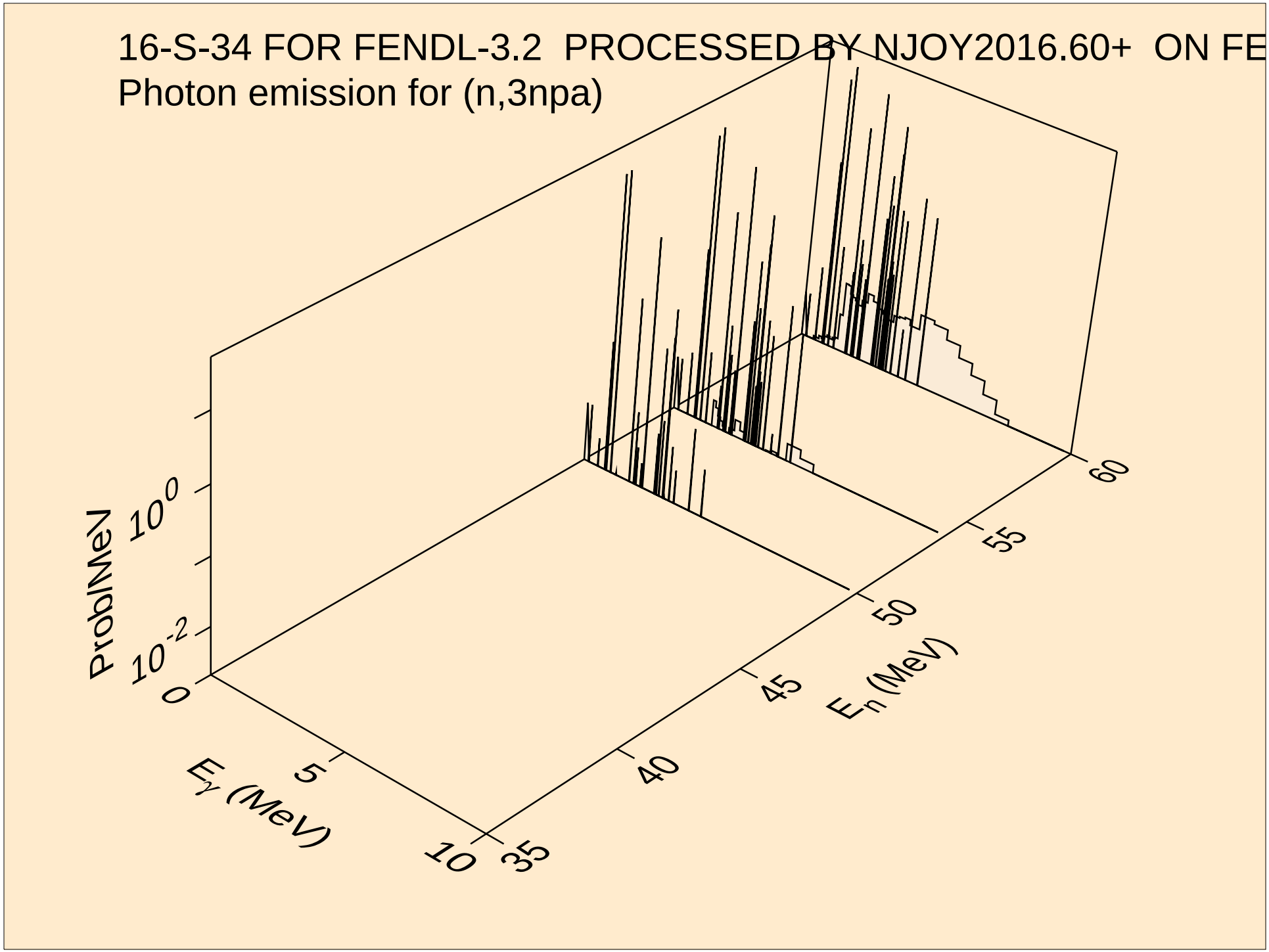

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2nhe3)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
25
30
35
40
45
50
55
60
E_n (MeV)

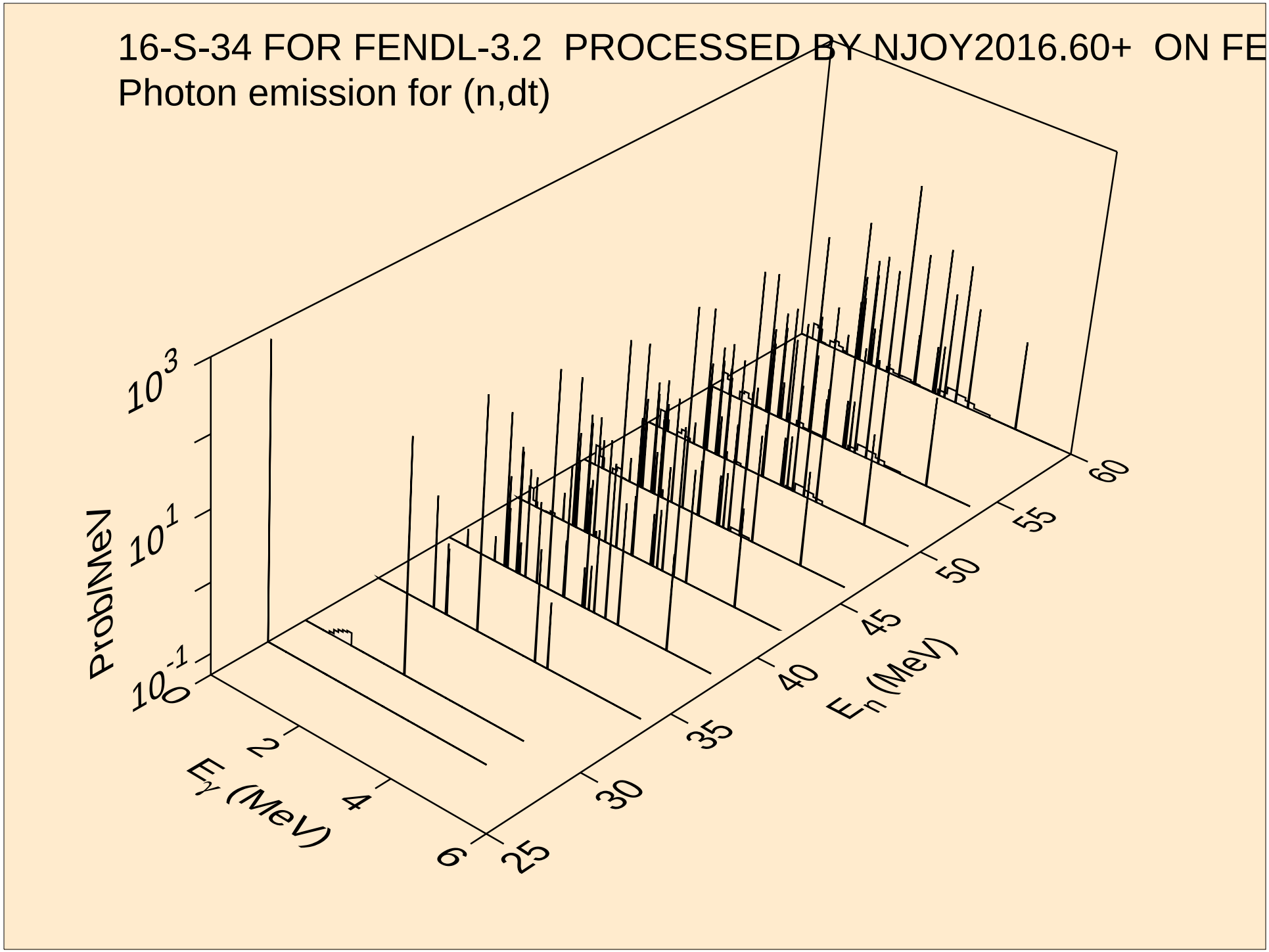

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3nhe3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
40
42
44
46
48
50
52
54
56
58
60
E_n (MeV)

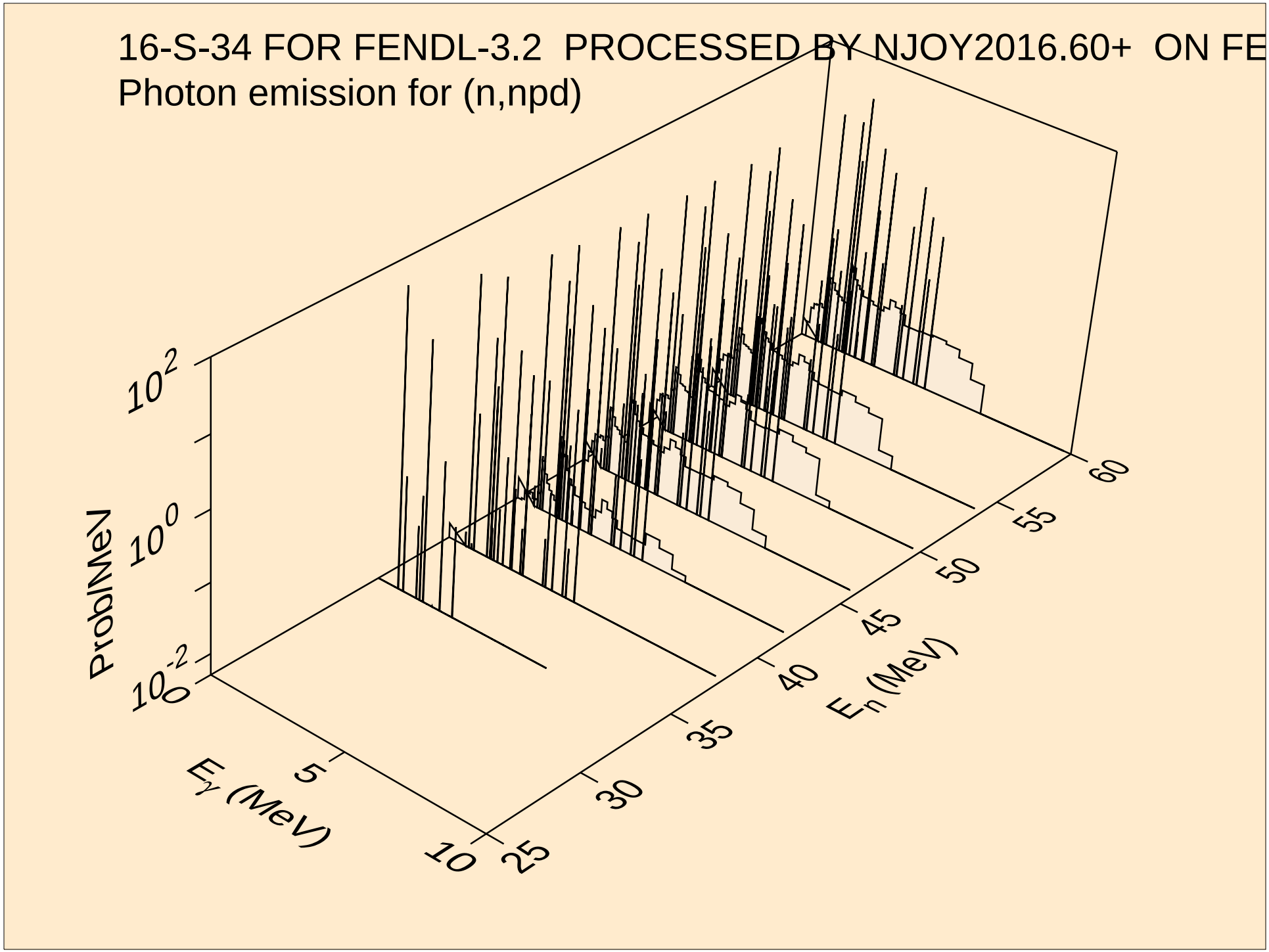

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,4nhe3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
E_n (MeV)
40
60
80
100
120
140
160
180
200

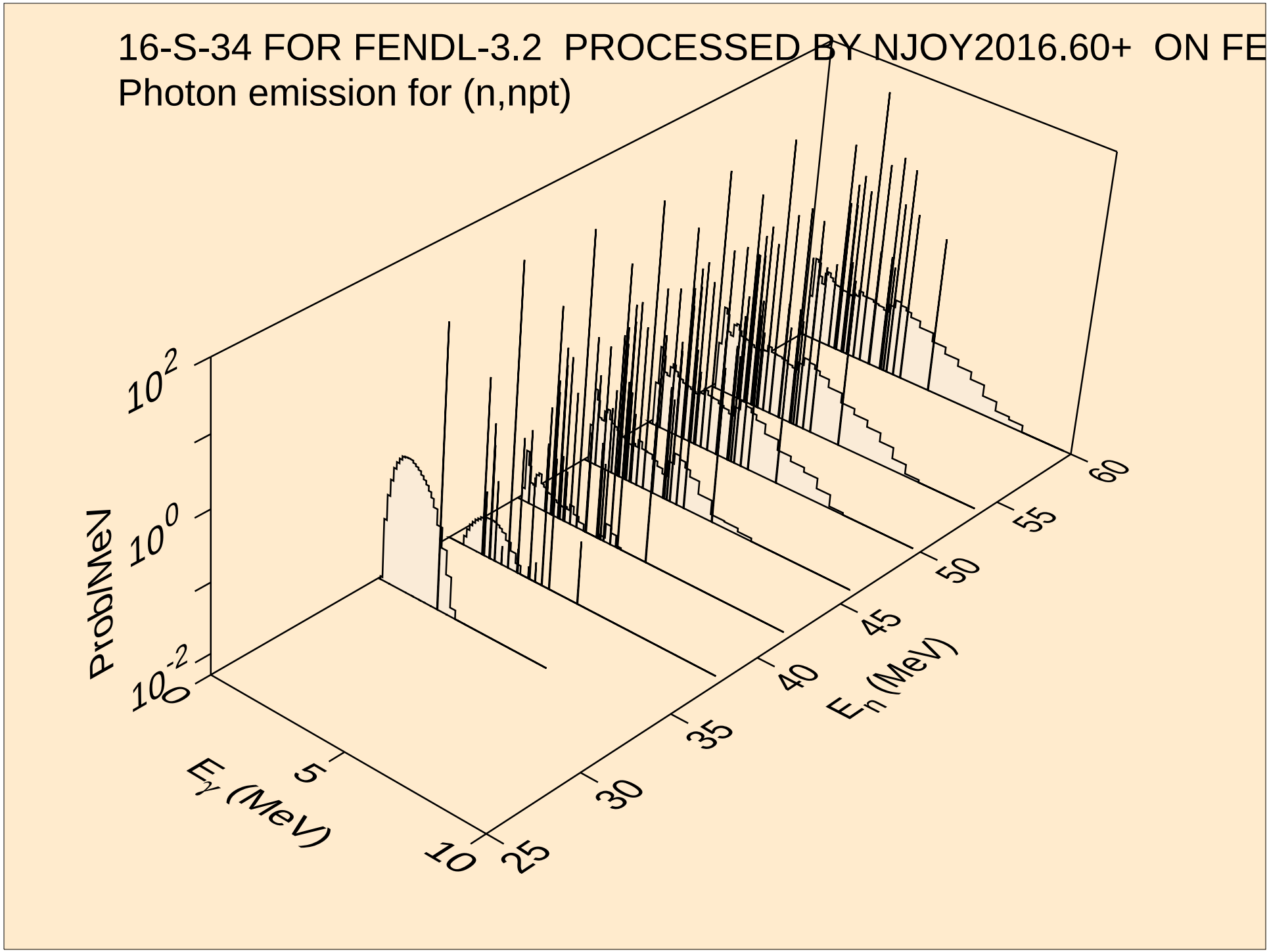

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3n2p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
35
40
45
50
55
60
E_n (MeV)

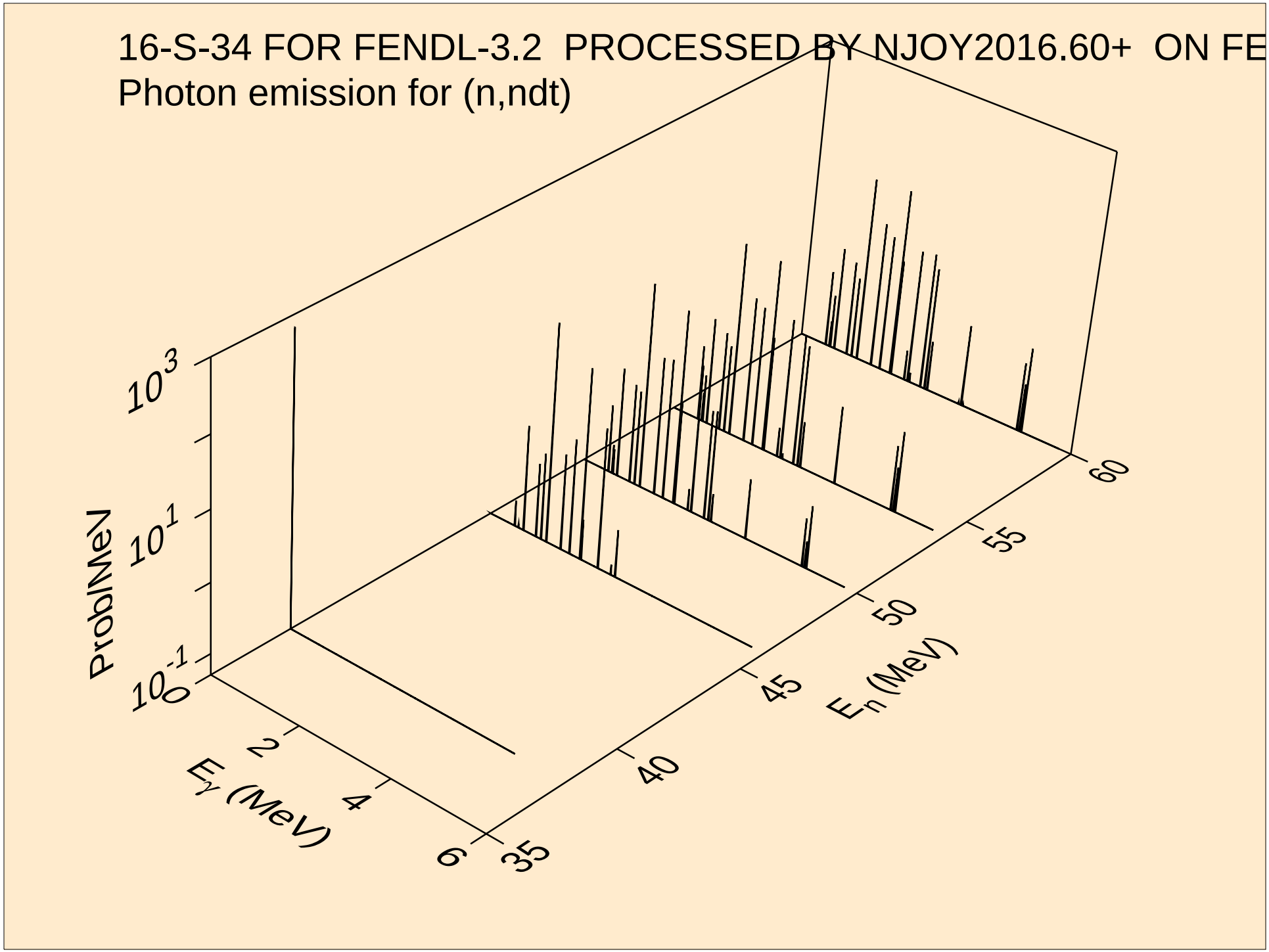

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3n2a)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
35
40
45
50
55
60
E_n (MeV)

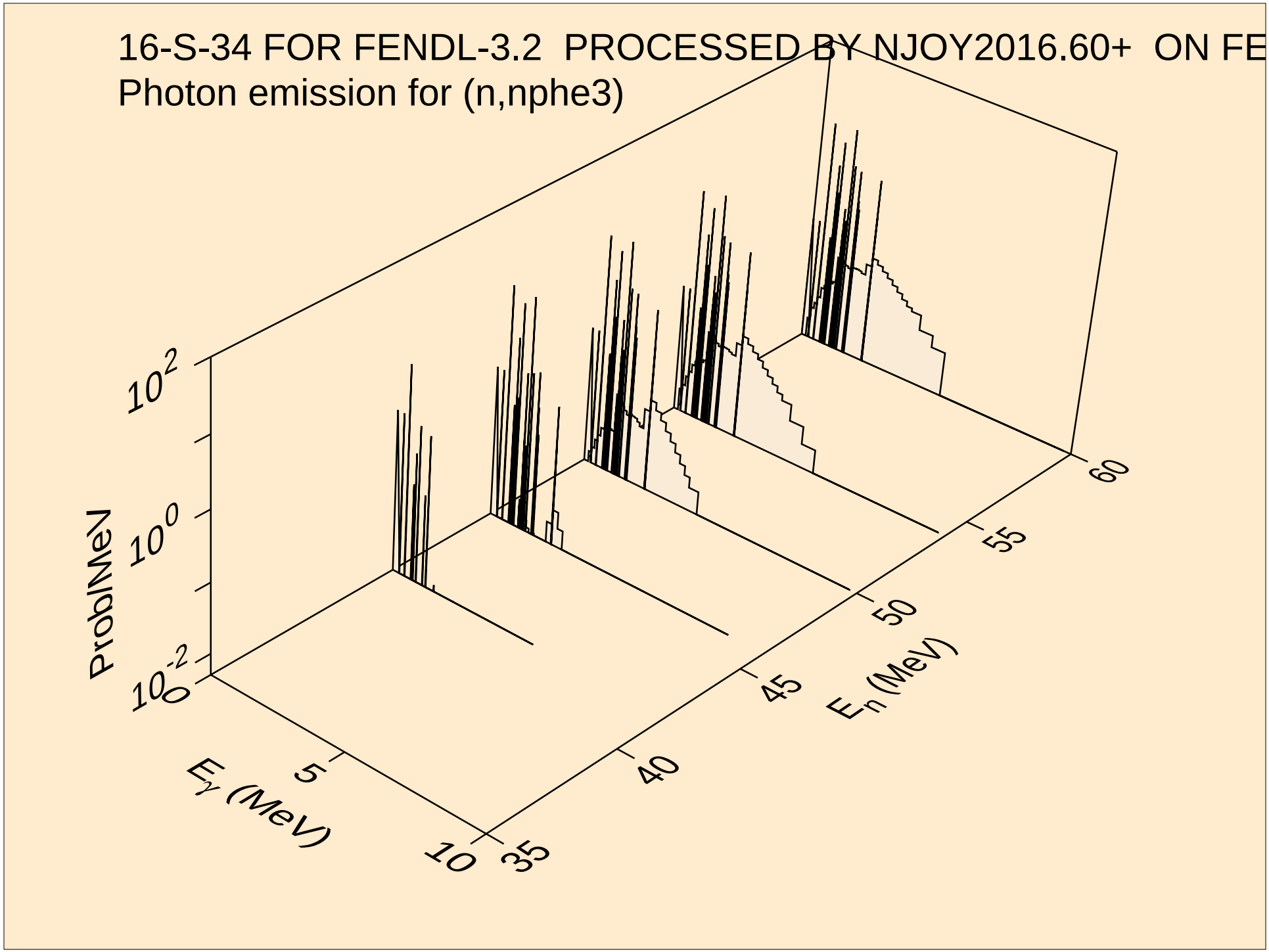

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3npa)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
35
40
45
50
55
60
E_n (MeV)

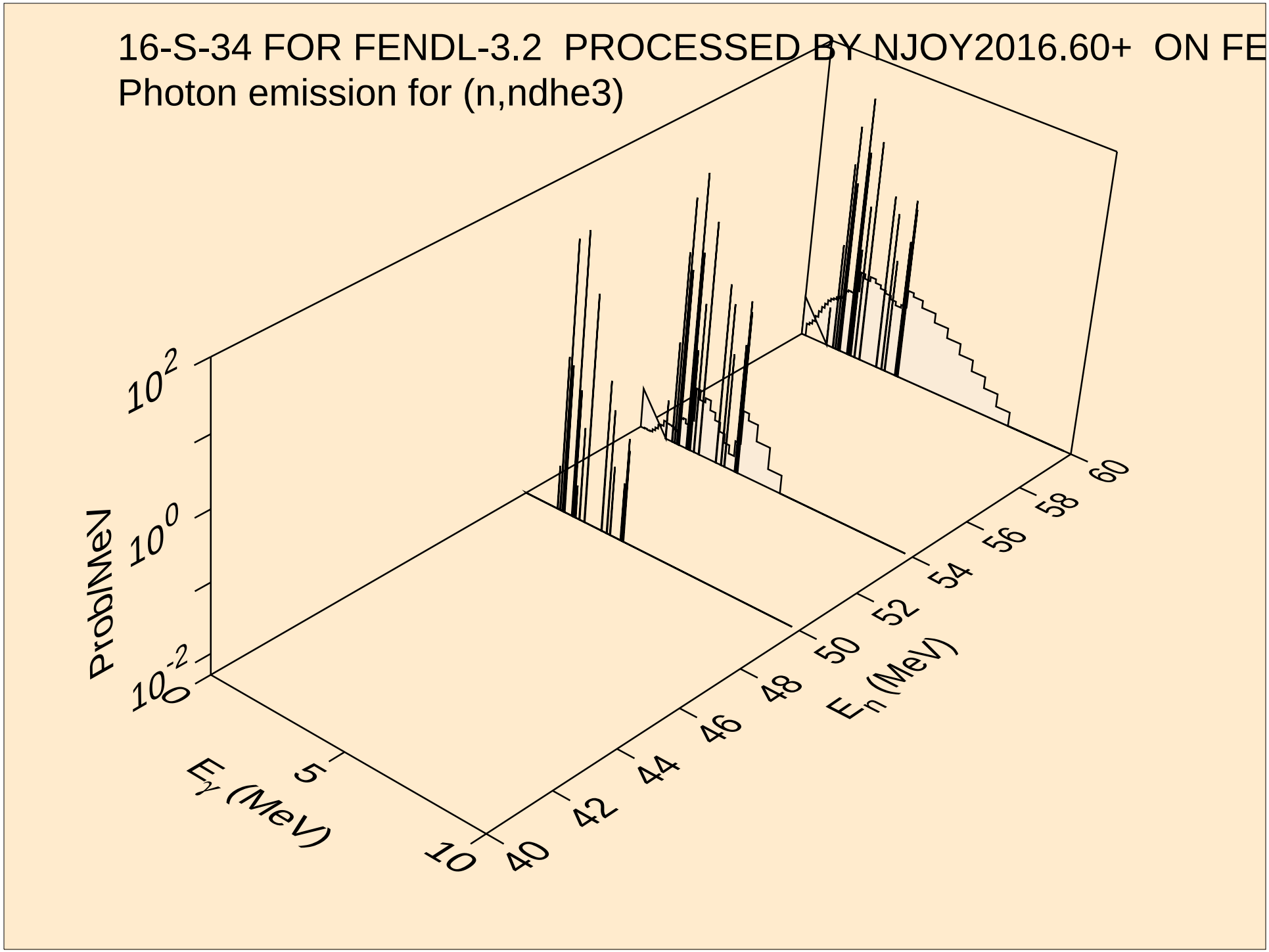

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,dt)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
25
30
35
40
45
50
55
60
E_n (MeV)

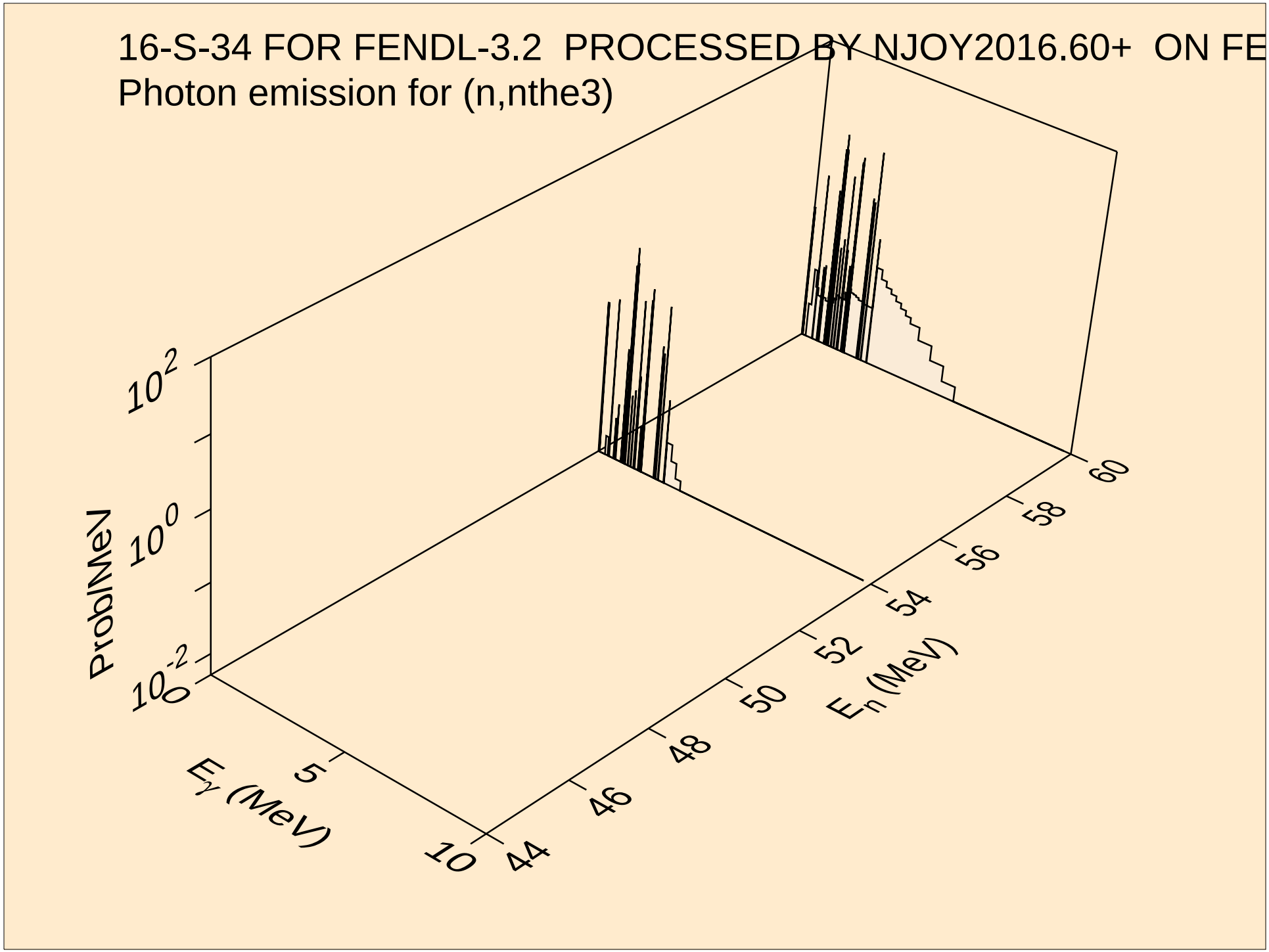

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,npd)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
25
30
35
40
45
50
55
60
E_n (MeV)

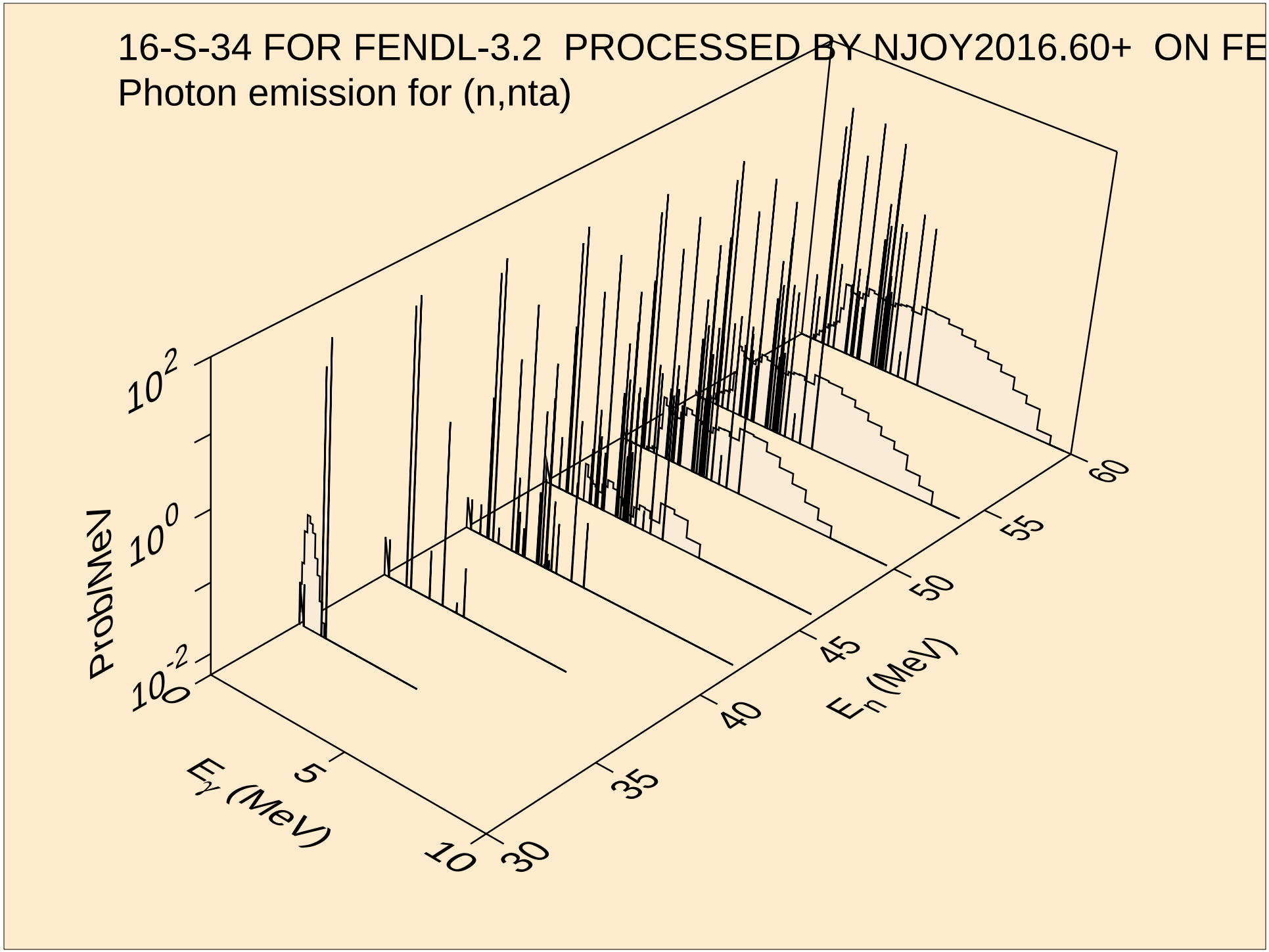

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,npt)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
25
30
35
40
45
50
55
60
E_n (MeV)

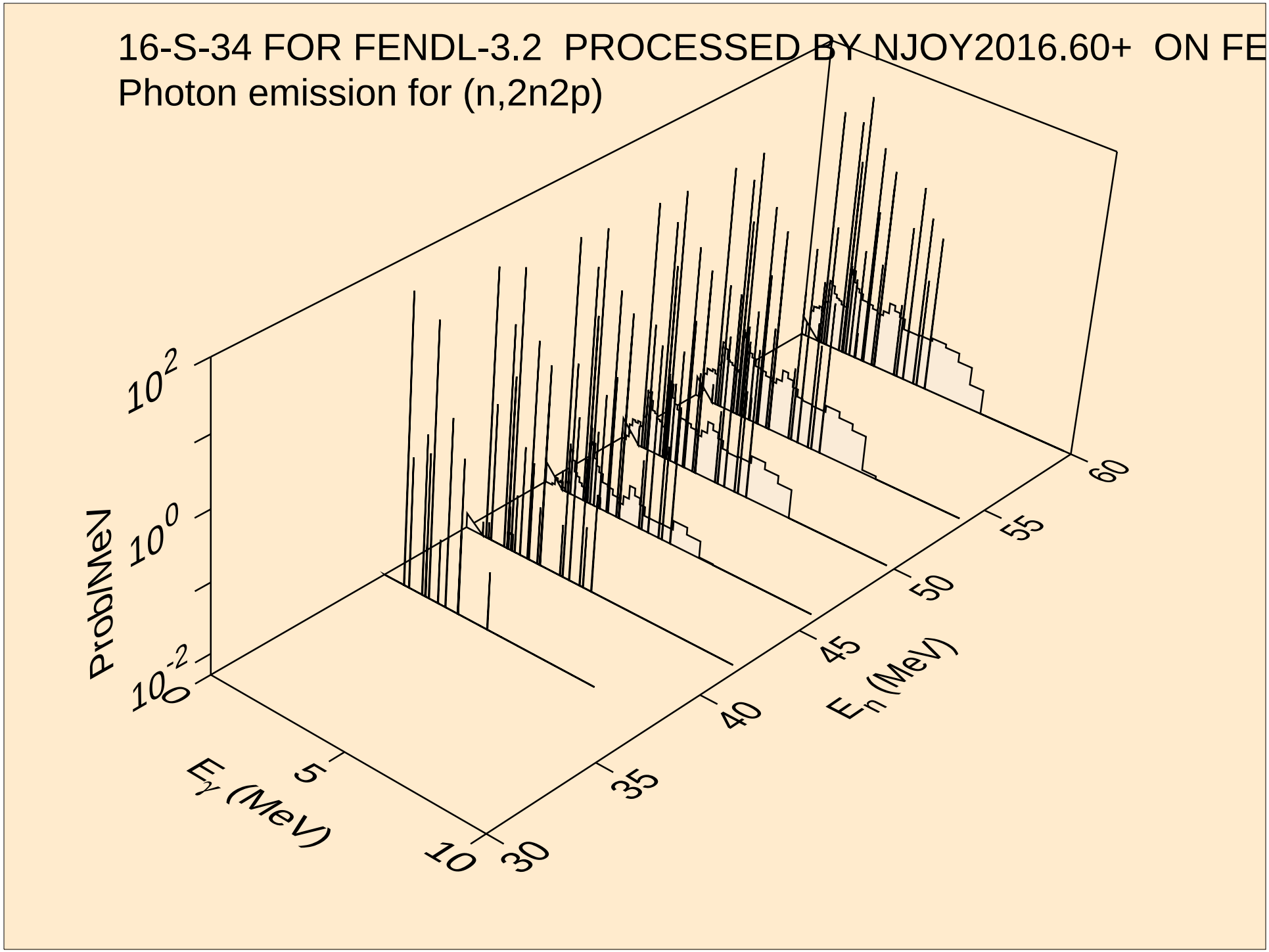

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,ndt)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
2
4
6
E_γ (MeV)
35
40
45
50
55
60
E_n (MeV)

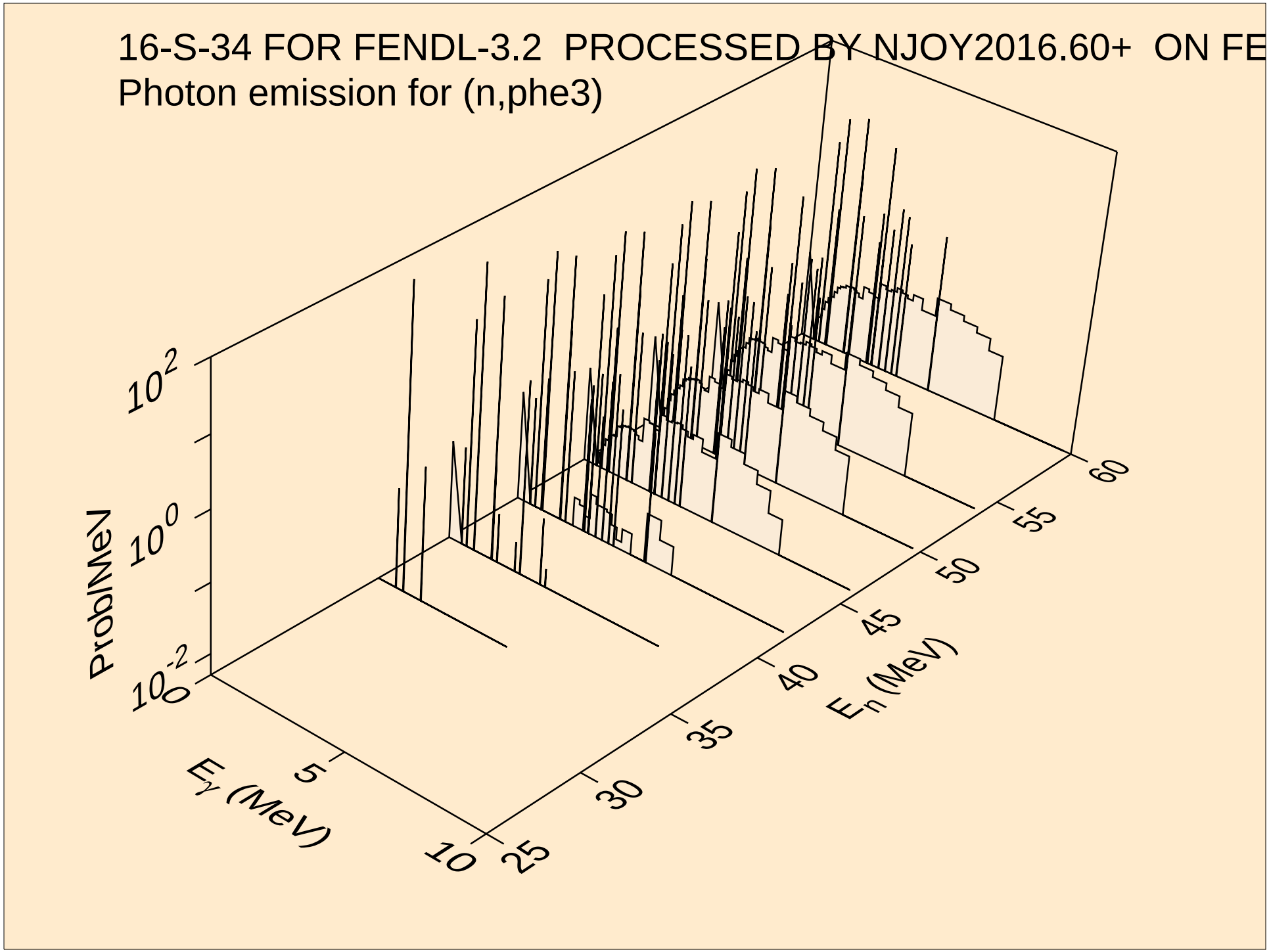

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,nphe3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
35
40
45
50
55
60
E_n (MeV)

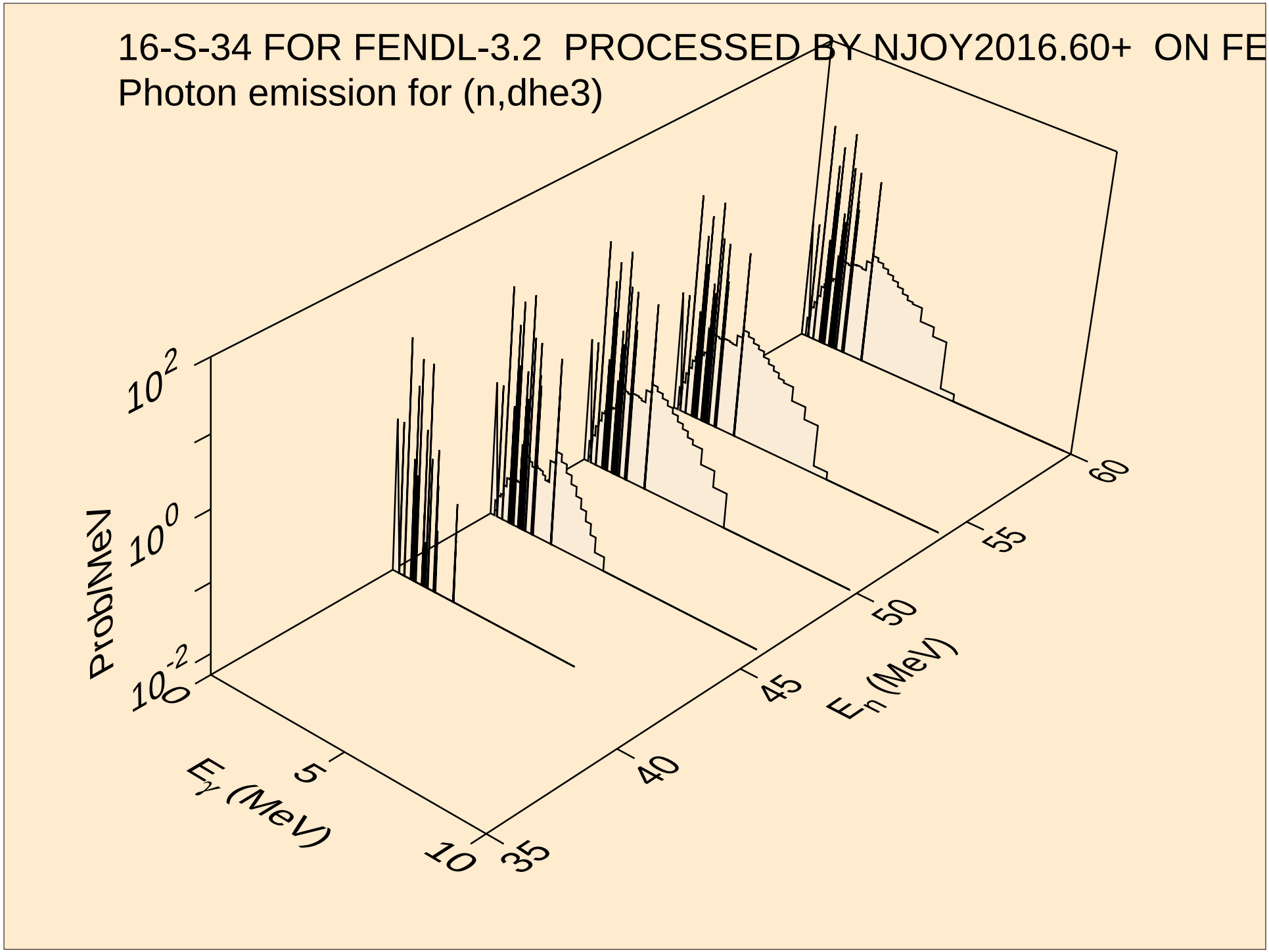

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,ndhe3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
40
42
44
46
48
50
52
54
56
58
60
E_n (MeV)

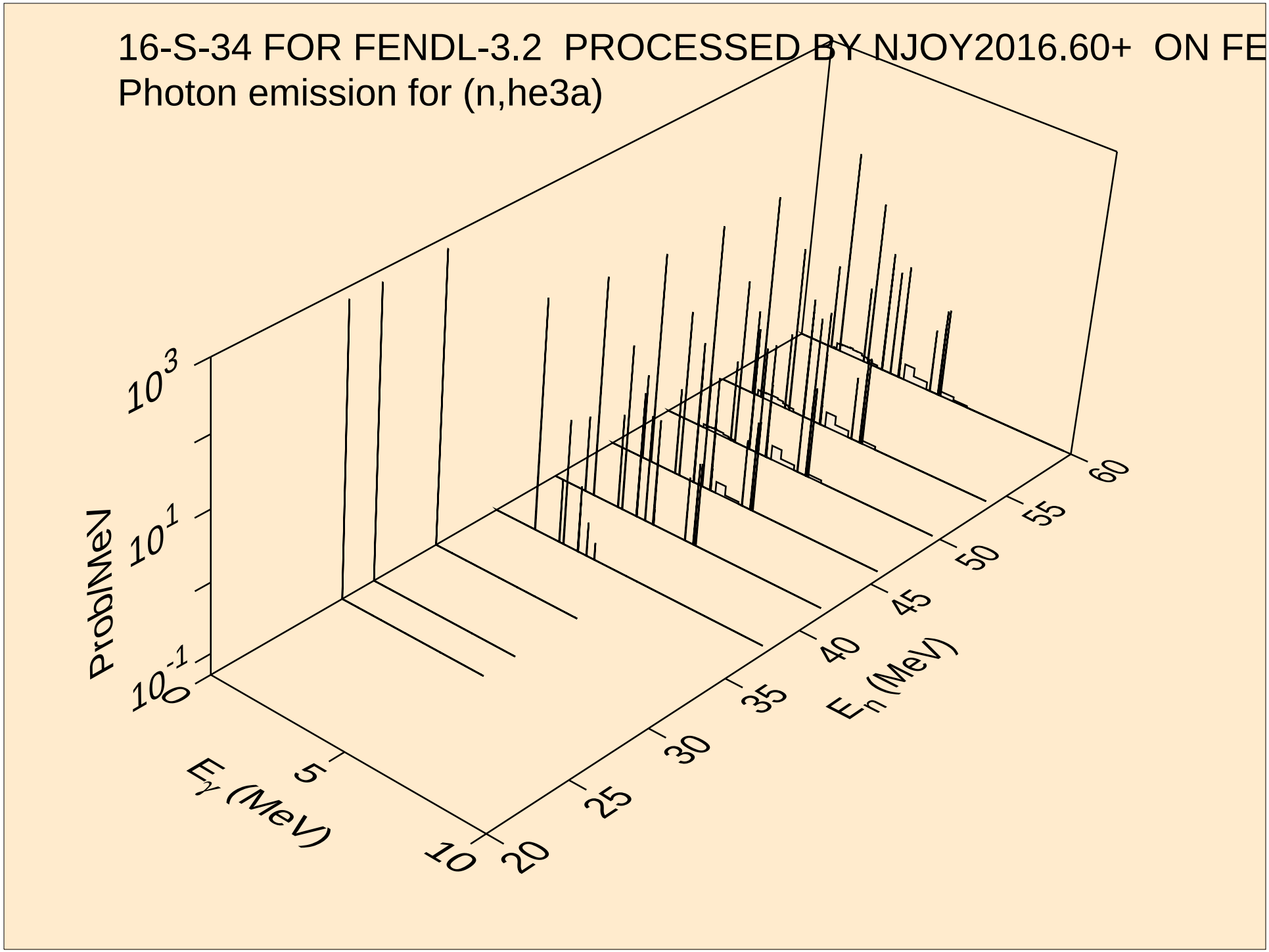

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,nthe3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
44
46
48
50
52
54
56
58
60
E_n (MeV)

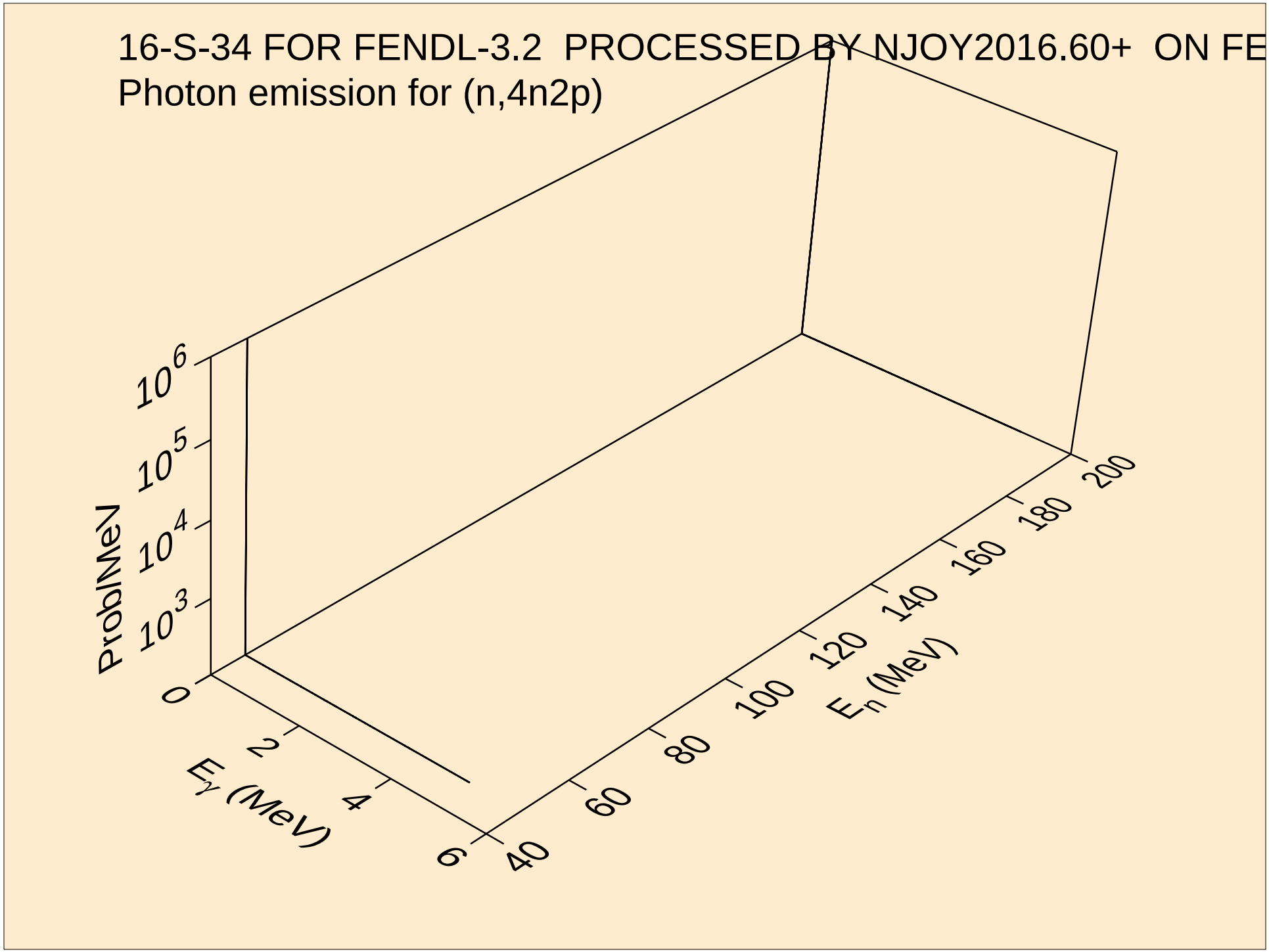

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,nta)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
30
35
40
45
50
55
60
E_n (MeV)

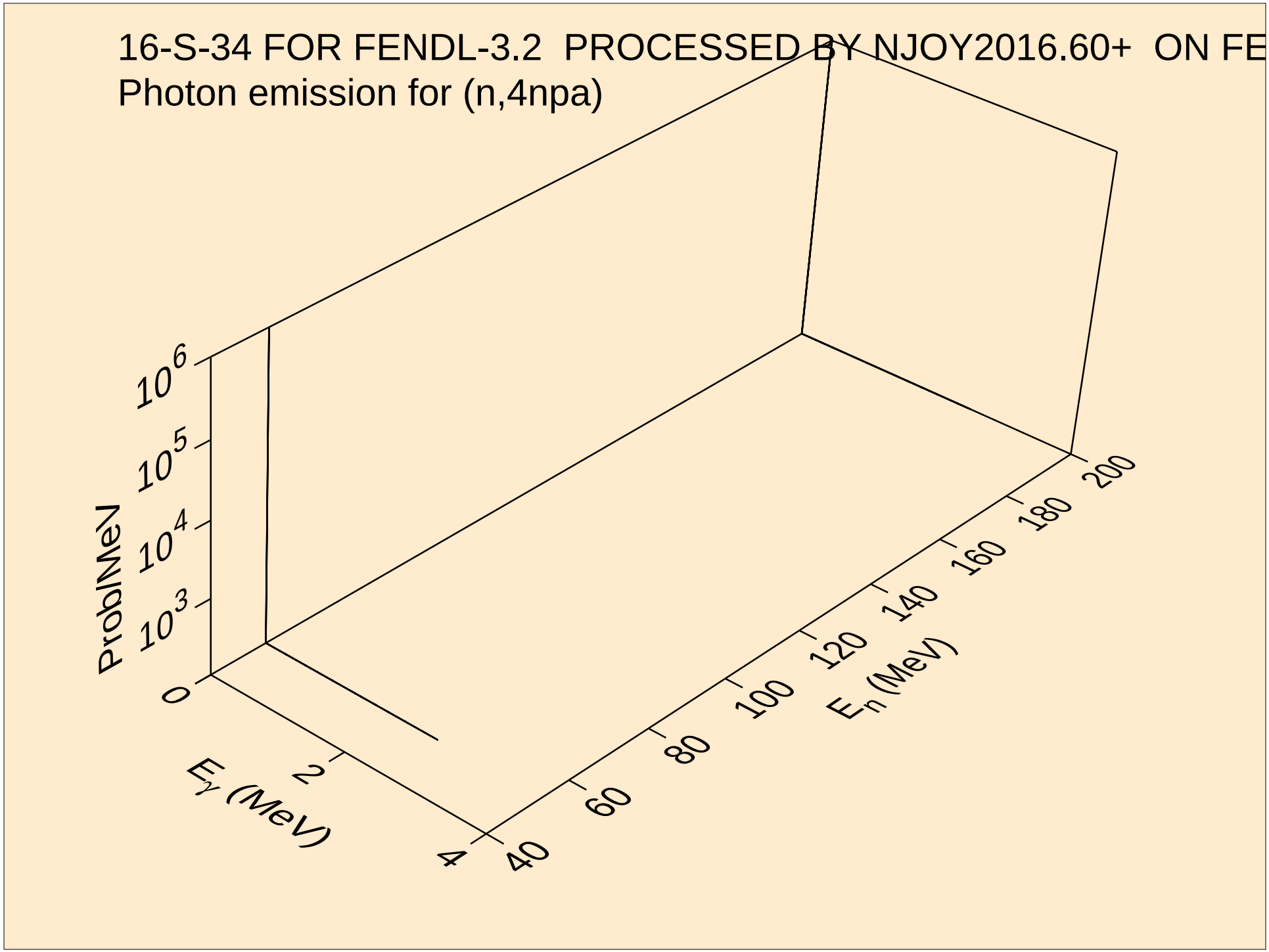

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,2n2p)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
30
35
40
45
50
55
60
E_n (MeV)

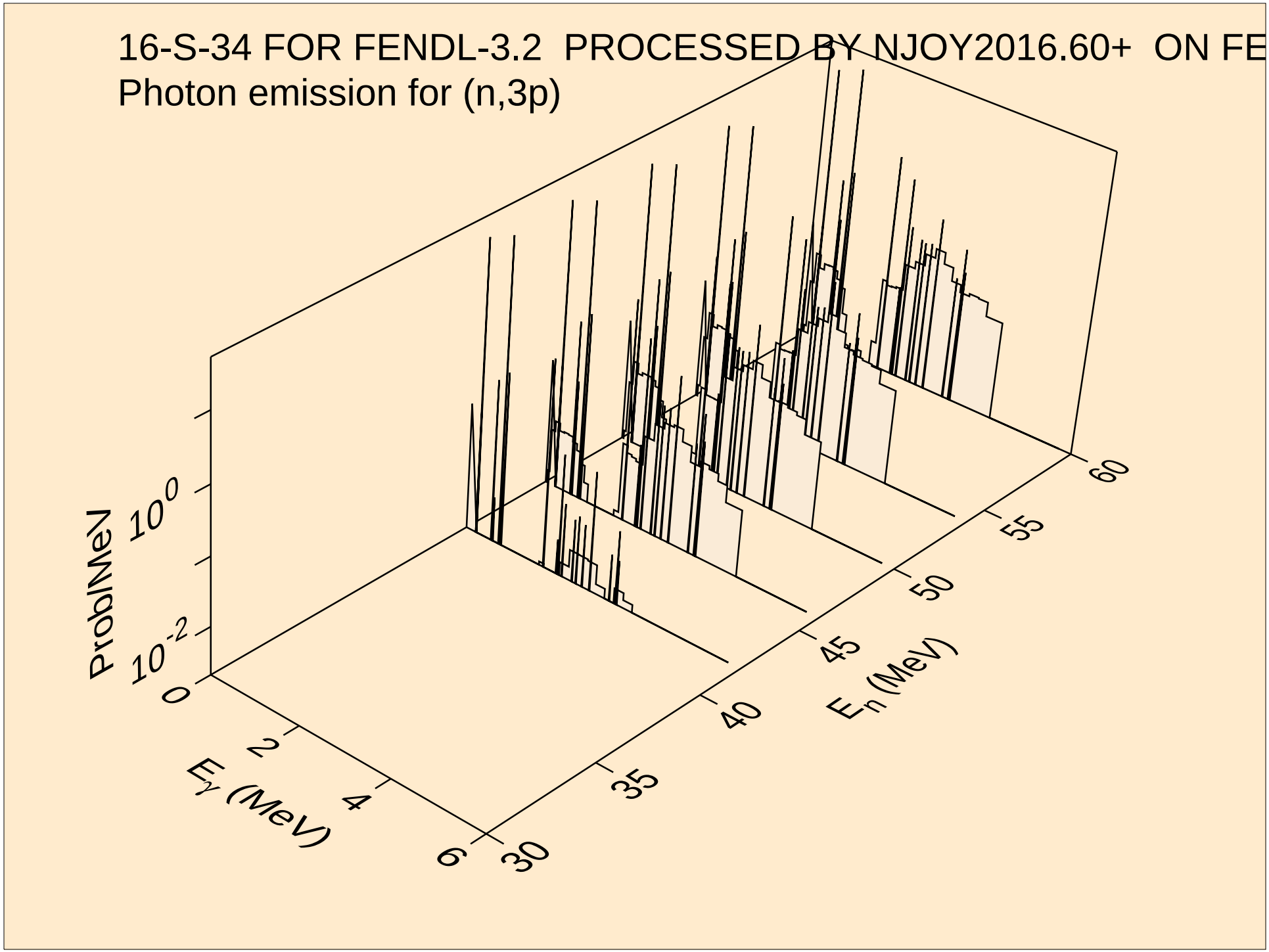

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,phe3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
E_γ (MeV)
0
5
10
25
30
35
40
45
50
55
60
E_n (MeV)

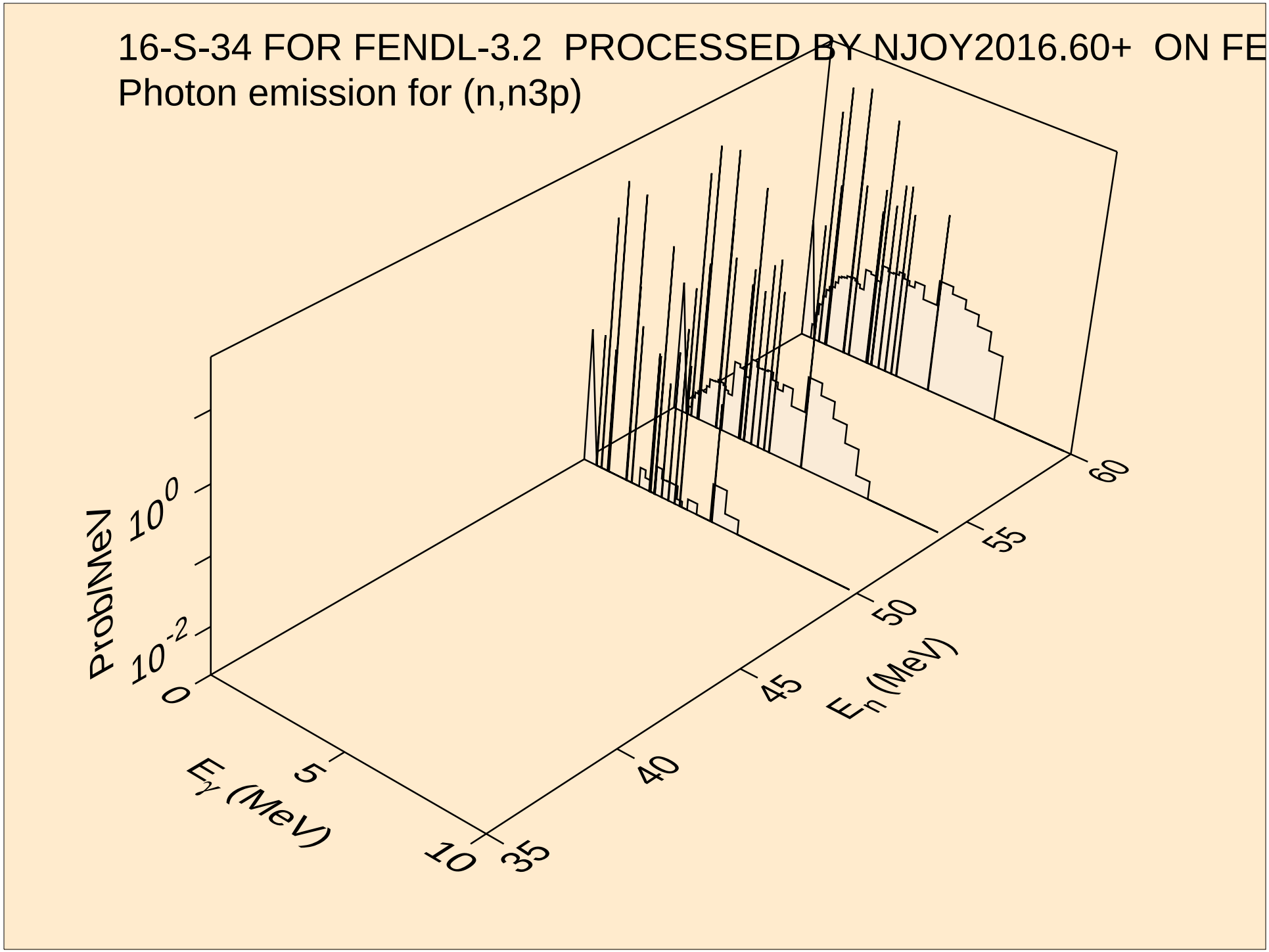

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,dhe3)
Prob/MeV
10^{2}
10^{0}
10^{-2}
0
5
10
E_γ (MeV)
35
40
45
50
55
60
E_n (MeV)

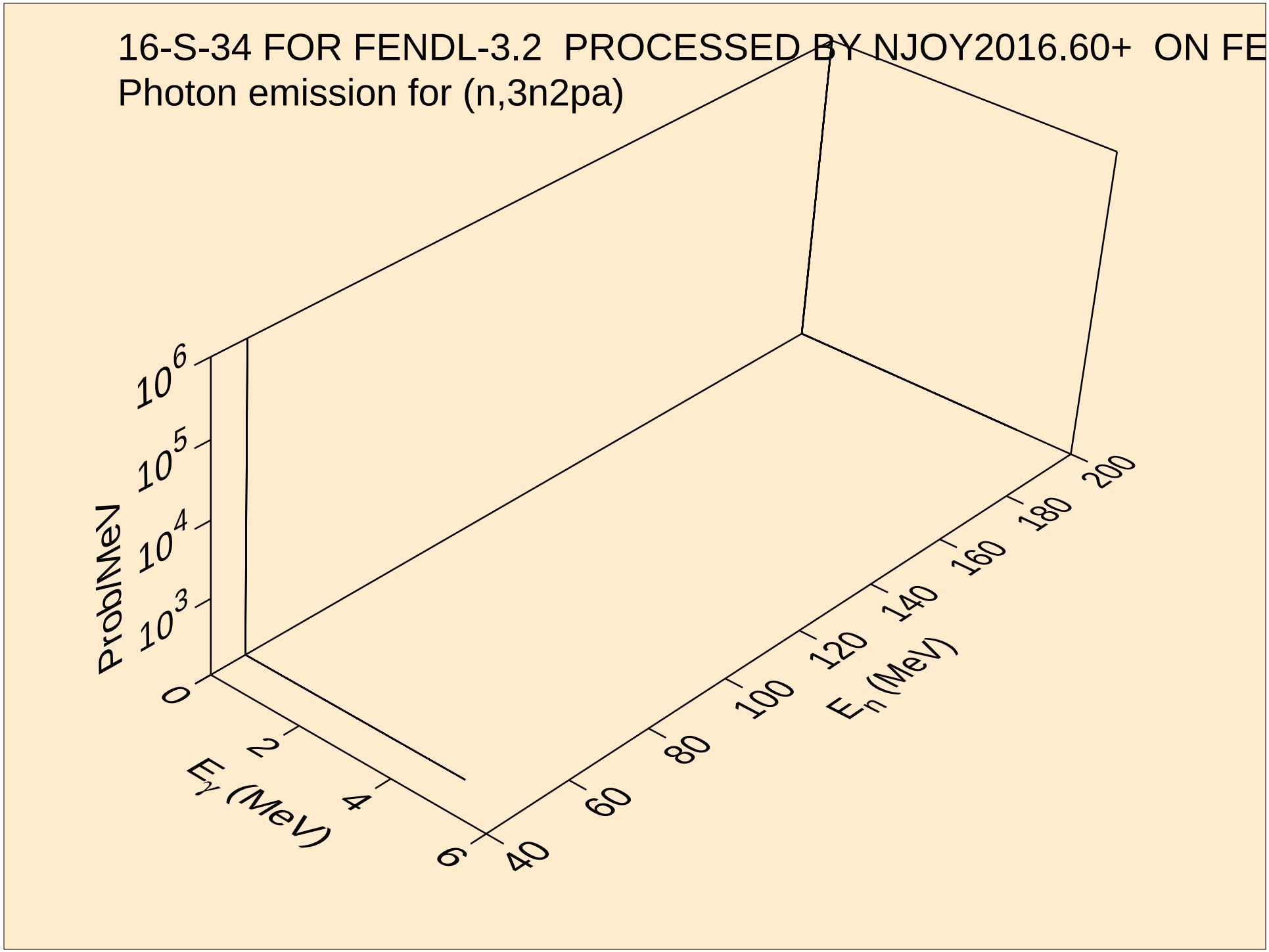

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,he3a)
Prob/MeV
10^{3}
10^{1}
10^{-1}
0
5
10
E_γ (MeV)
20
25
30
35
40
45
50
55
60
E_n (MeV)

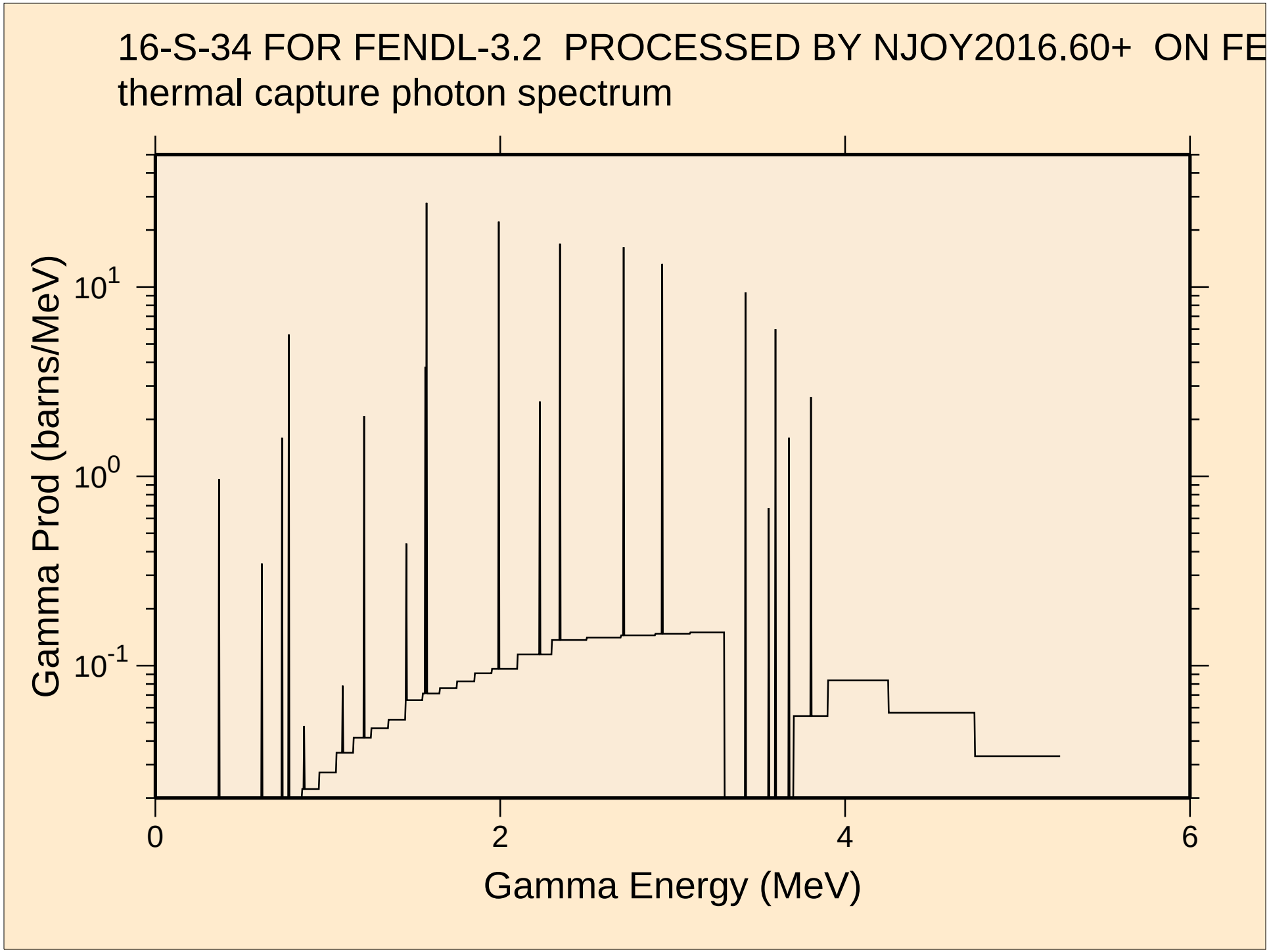

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,4n2p)
Prob/MeV
10^6
10^5
10^4
10^3
0
2
4
6
E_γ (MeV)
40
60
80
100
120
140
160
180
200
E_n (MeV)

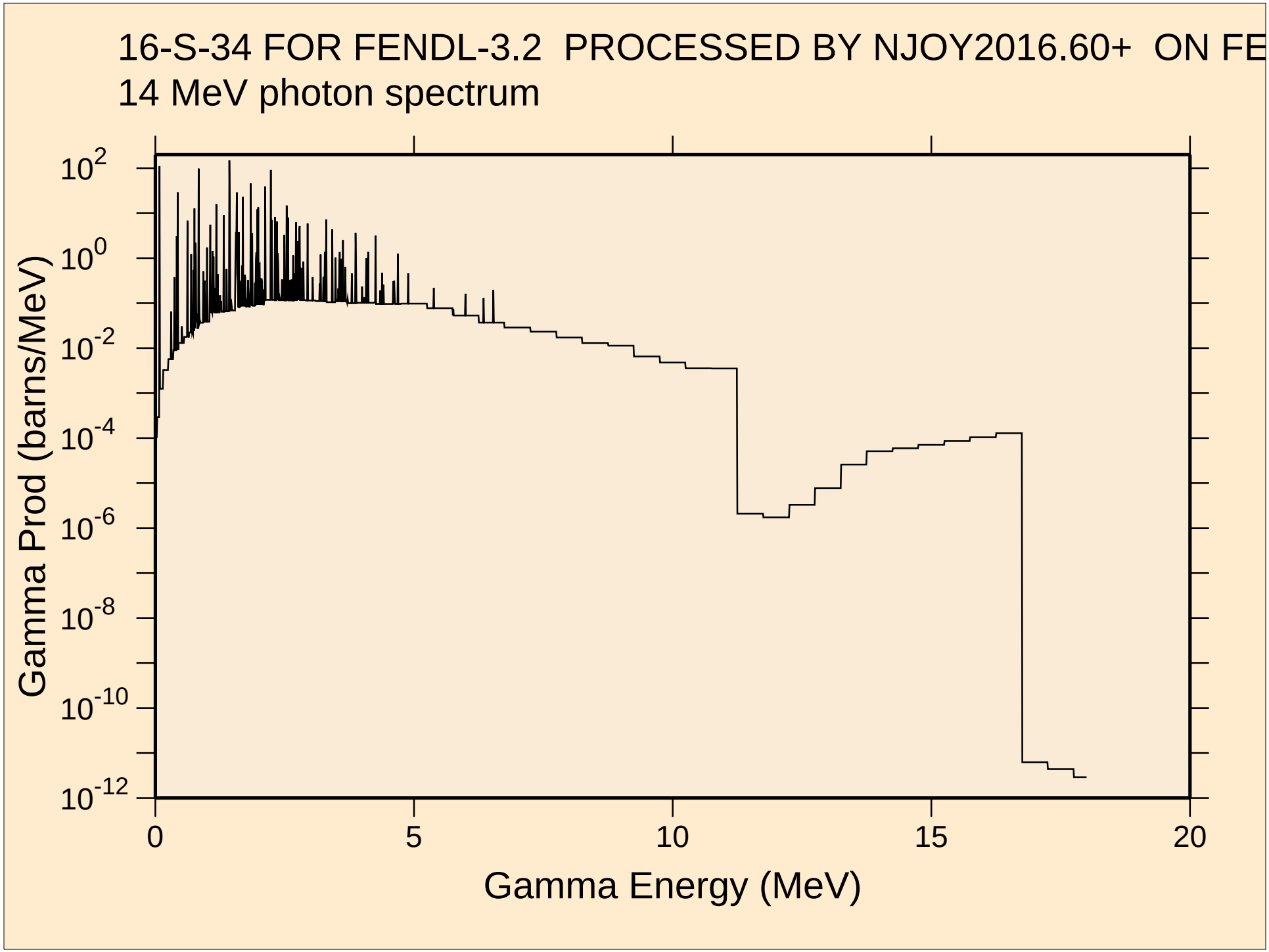

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,4npa)
Prob/MeV
10^6
10^5
10^4
10^3
0
2
4
E_γ (MeV)
40
60
80
100
120
140
160
180
200
E_n (MeV)

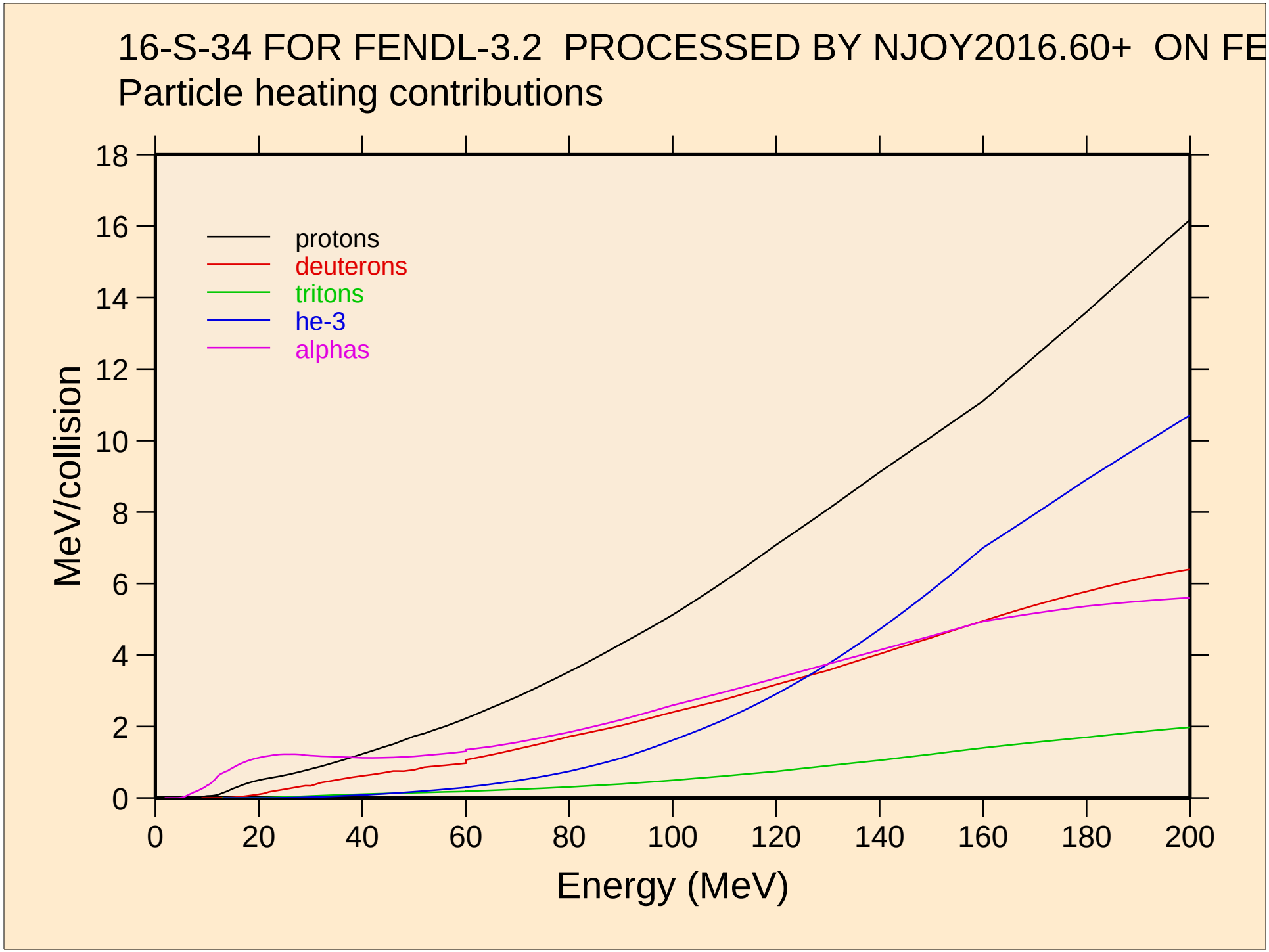

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3p)
Prob/MeV
10^0
10^-2
0
2
4
6
E_γ (MeV)
30
35
40
45
50
55
60
E_n (MeV)

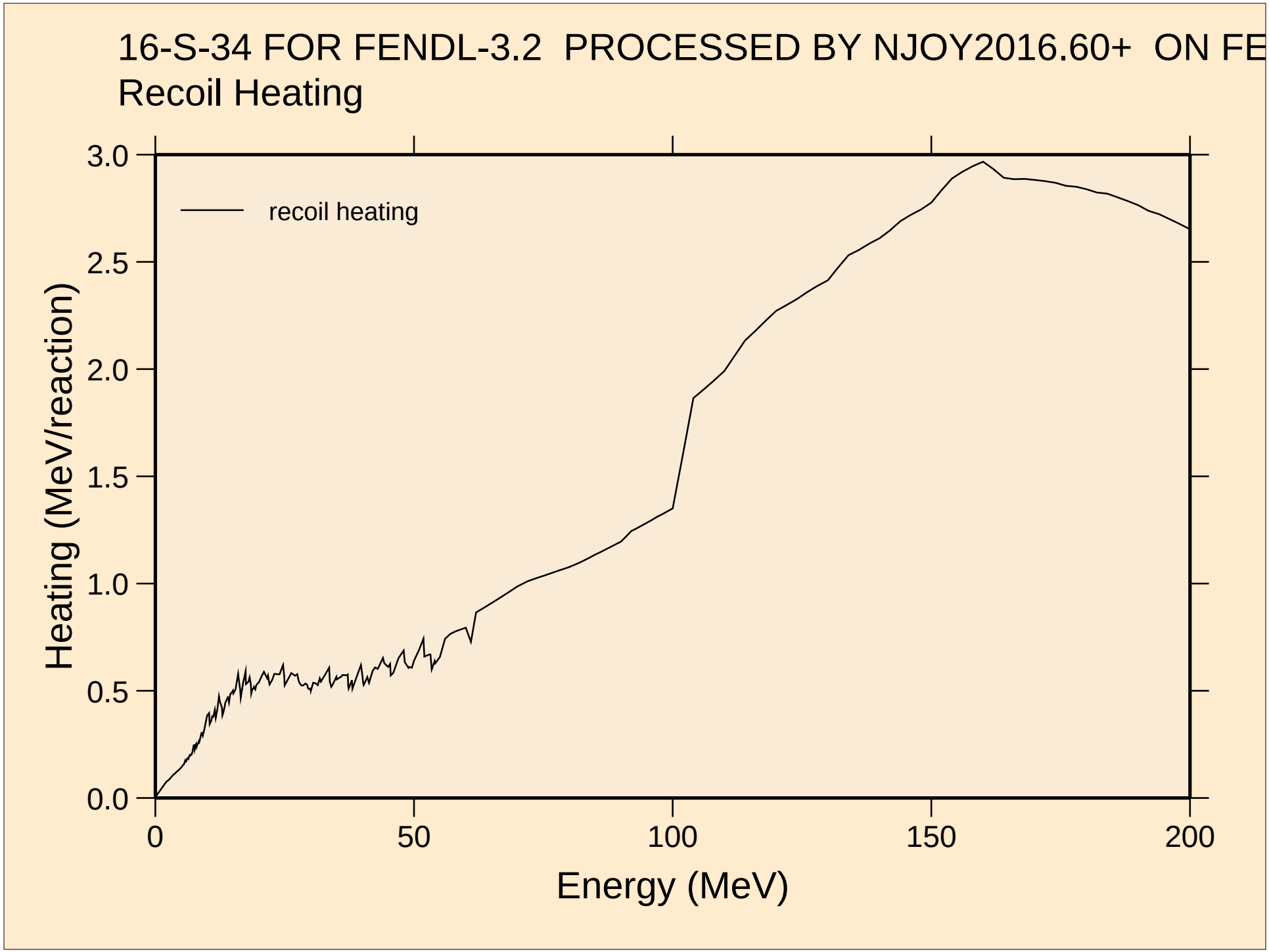

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,n3p)
Prob/MeV
10^0
10^-2
0
5
10
E_γ (MeV)
35
40
45
50
55
60
E_n (MeV)

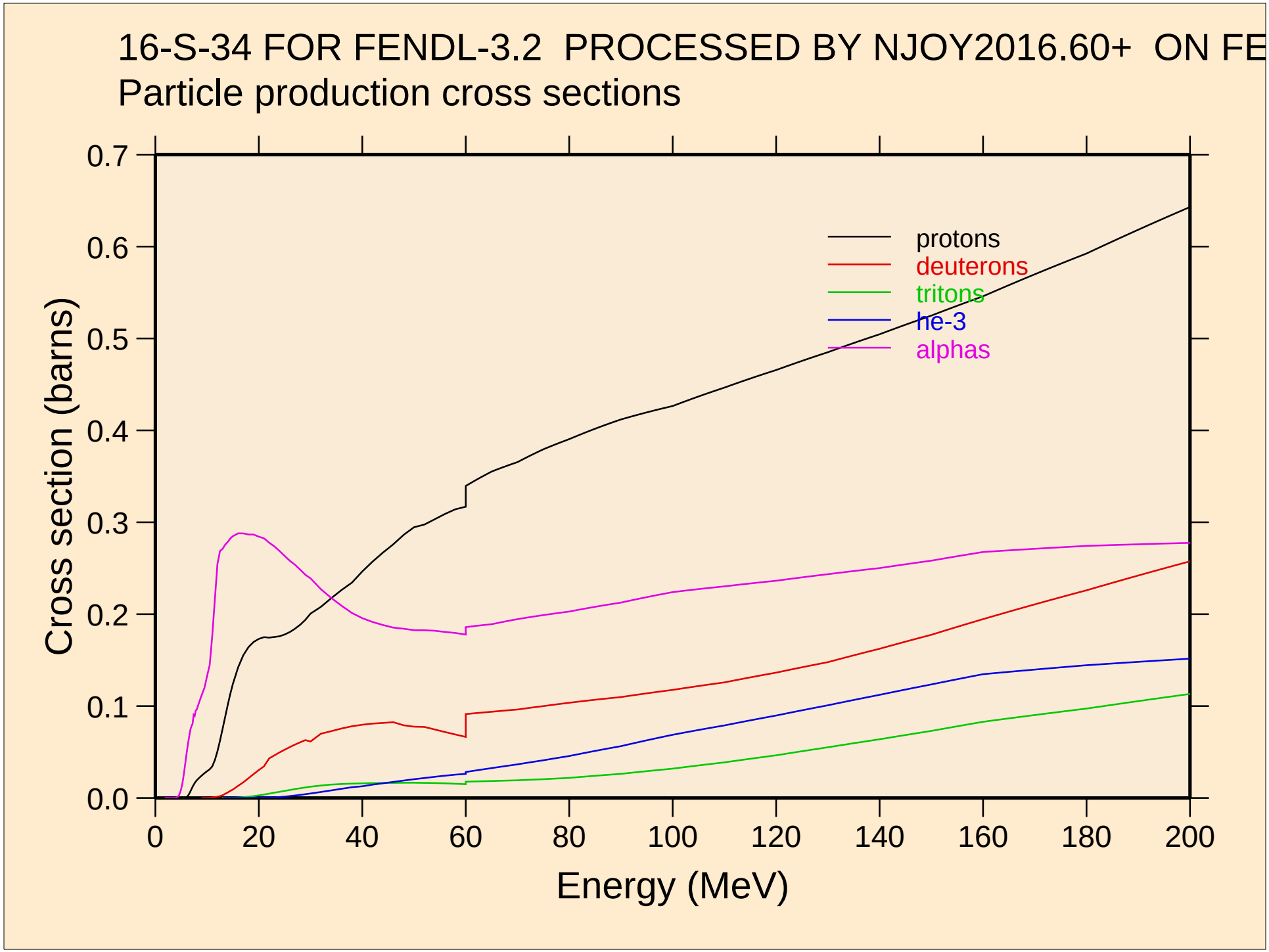

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Photon emission for (n,3n2pa)
Prob/MeV
10^6
10^5
10^4
10^3
0
2
4
6
E_γ (MeV)
40
60
80
100
120
140
160
180
200
E_n (MeV)

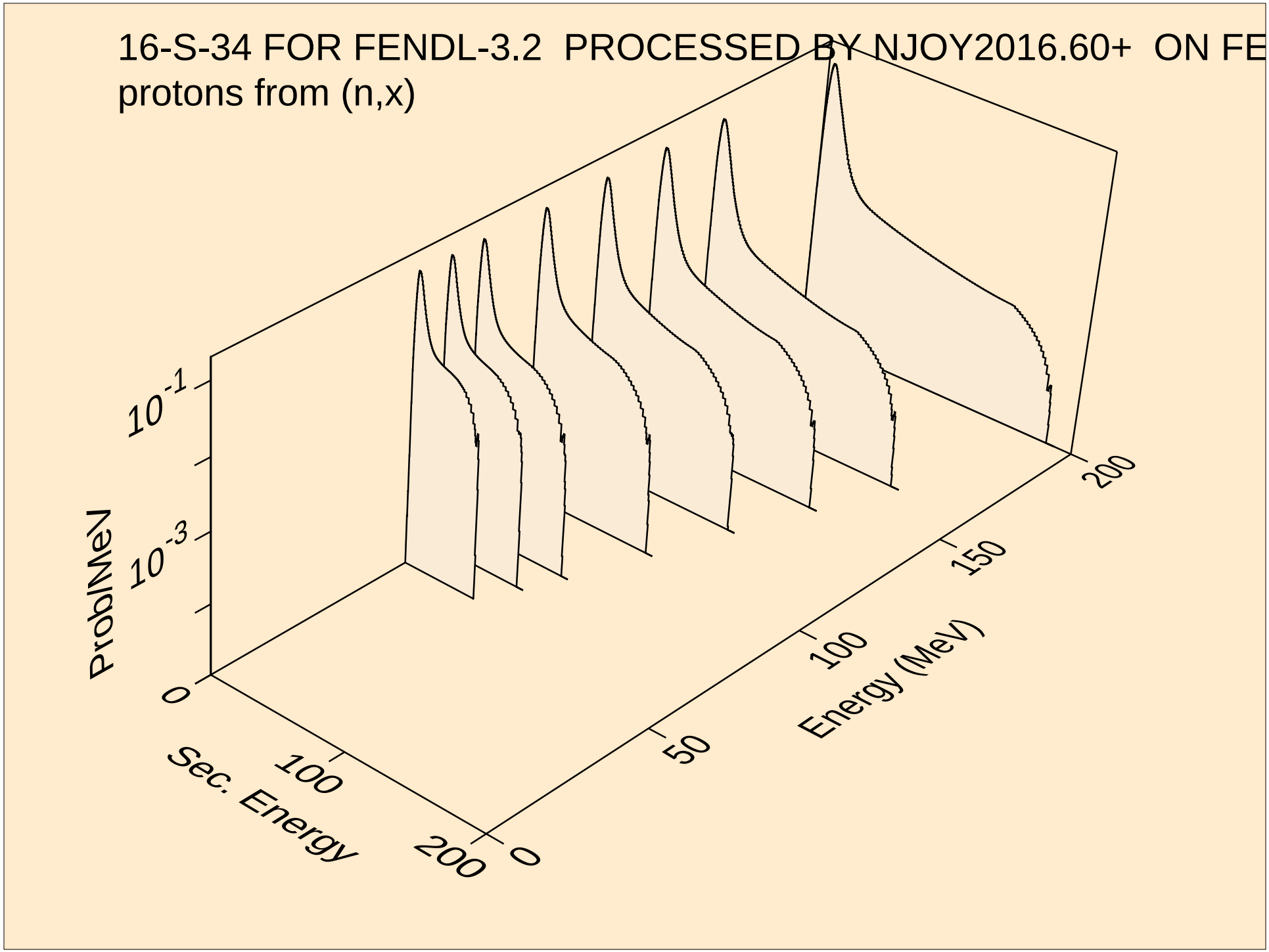

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
thermal capture photon spectrum
Gamma Prod (barns/MeV)
10^1
10^0
10^-1
0
2
4
6
Gamma Energy (MeV)

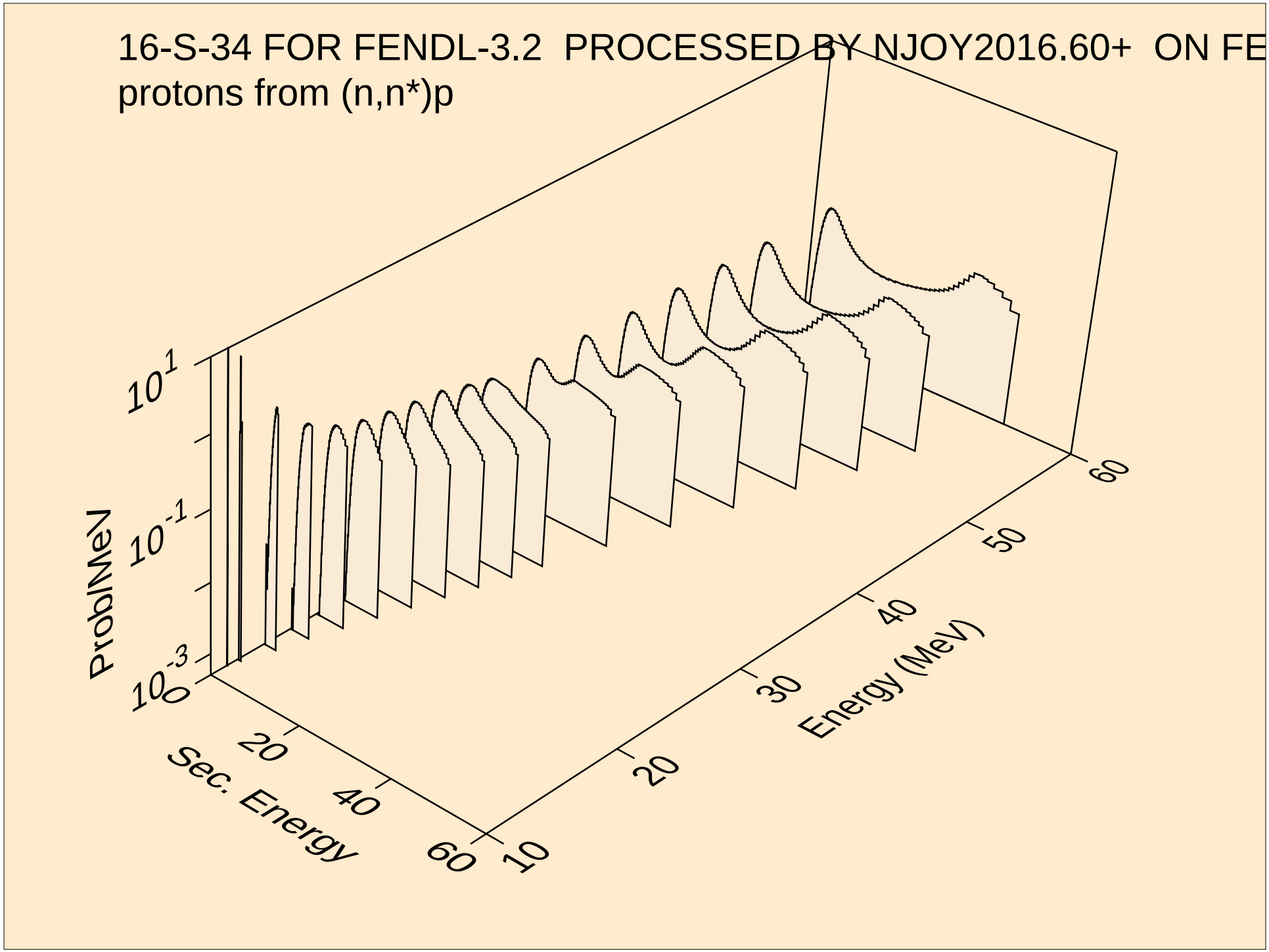

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
14 MeV photon spectrum
Gamma Prod (barns/MeV)
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
10^{-12}
0
5
10
15
20
Gamma Energy (MeV)

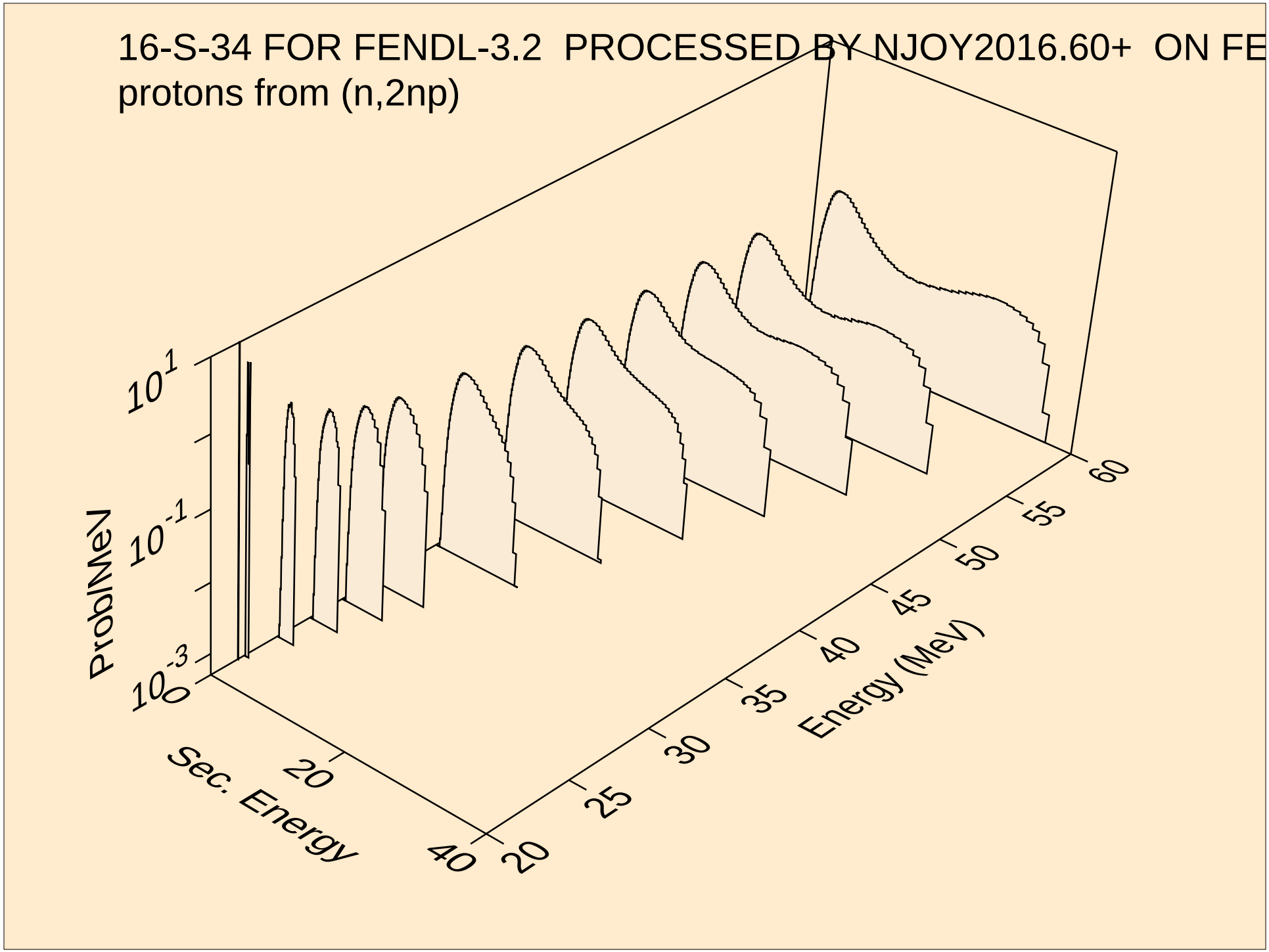

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Particle heating contributions
protons
deuterons
tritons
he-3
alphas
MeV/collision
Energy (MeV)
0
2
4
6
8
10
12
14
16
18
0
20
40
60
80
100
120
140
160
180
200

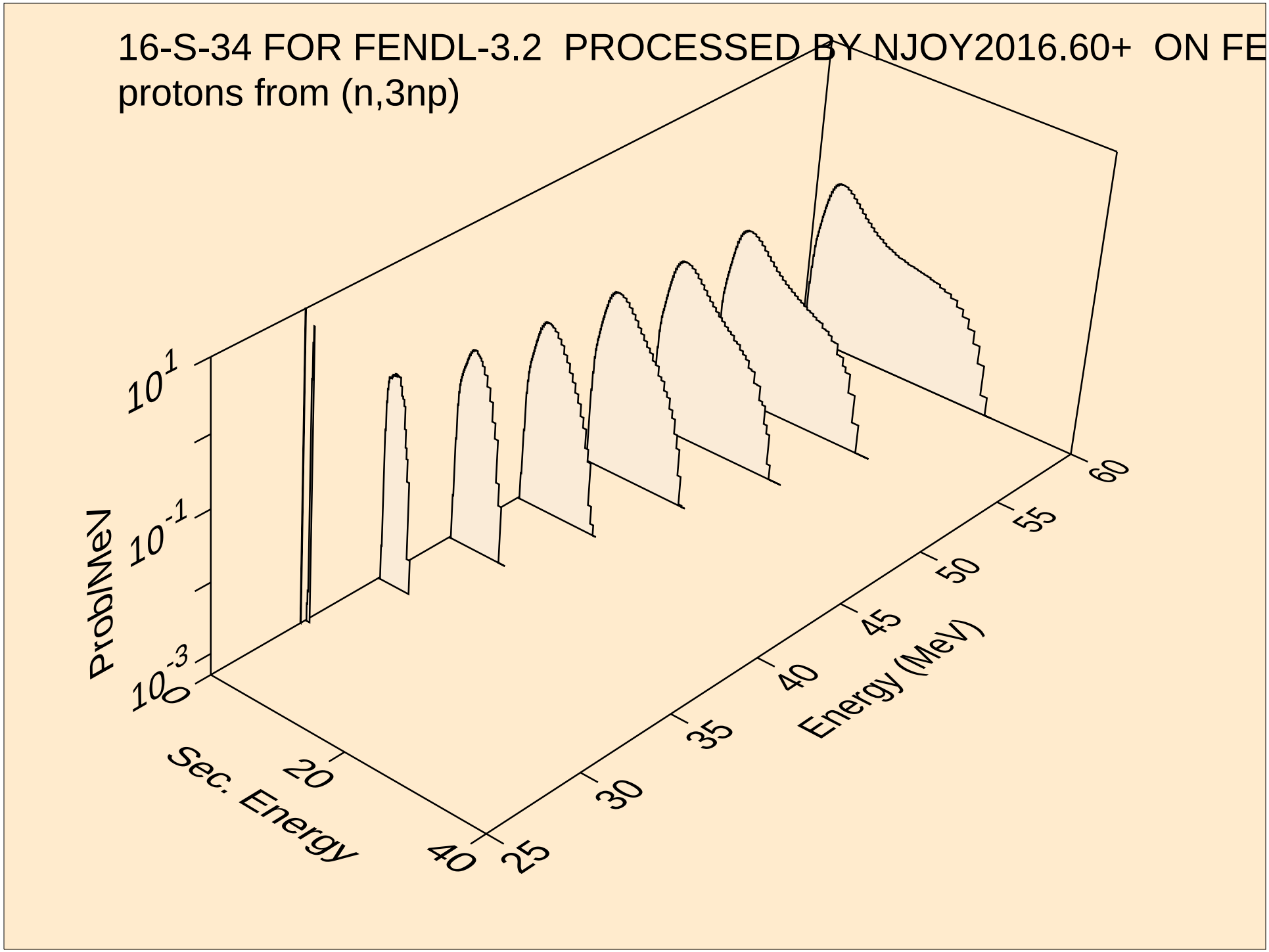

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Recoil Heating
recoil heating
Heating (MeV/reaction)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0
50
100
150
200

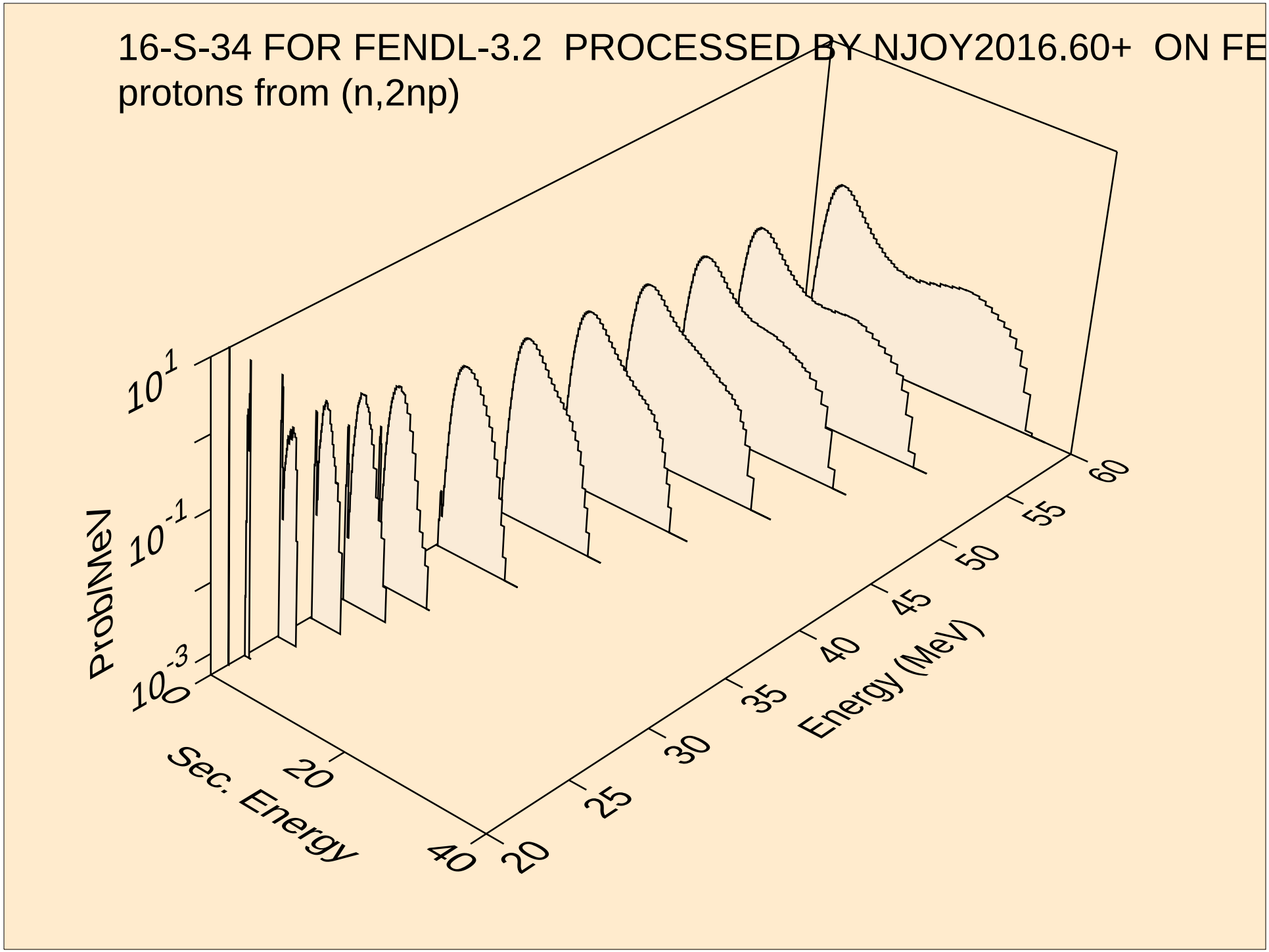

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
Particle production cross sections
Cross section (barns)
Energy (MeV)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
20
40
60
80
100
120
140
160
180
200
protons
deuterons
tritons
he-3
alphas

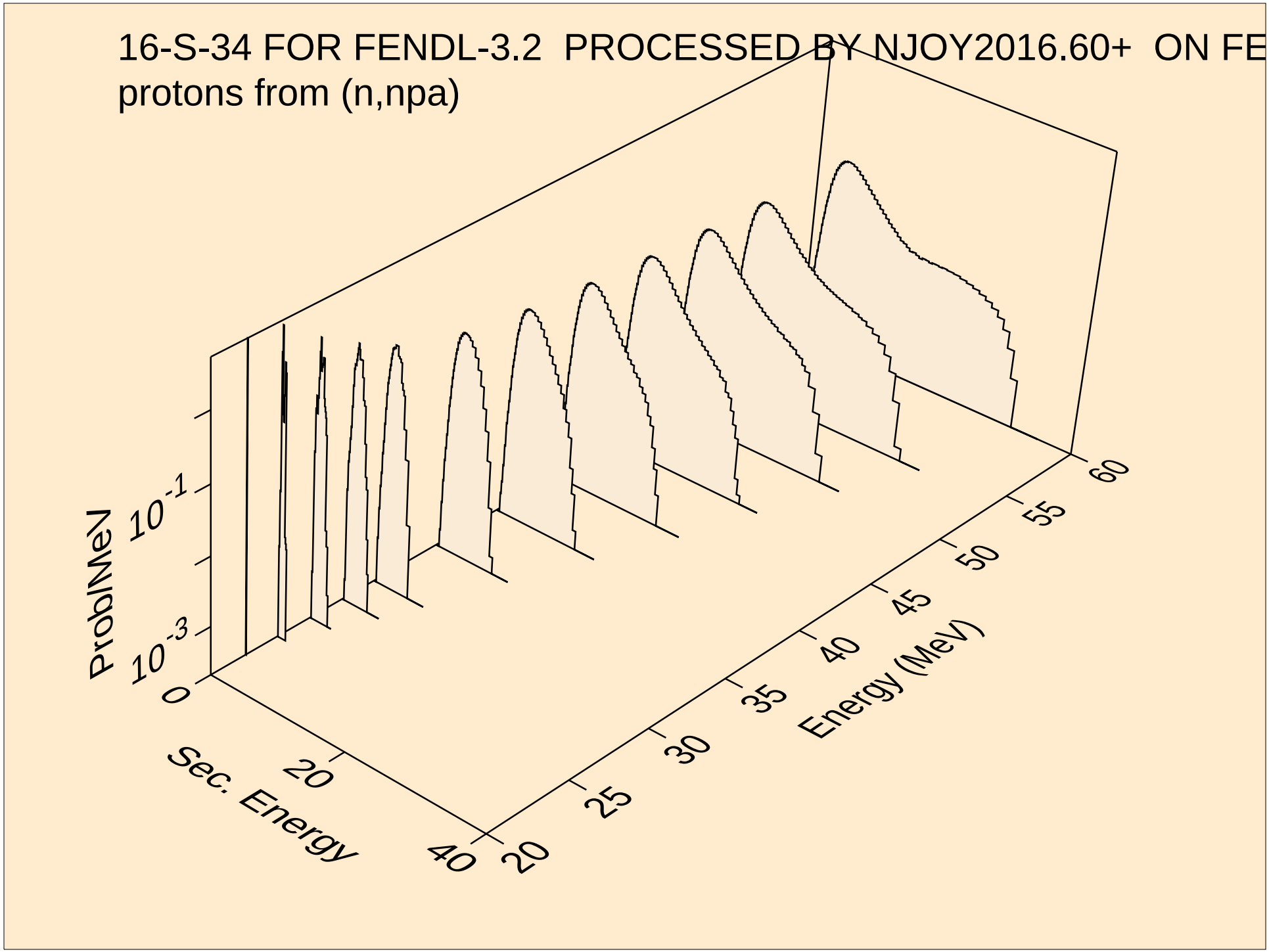

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

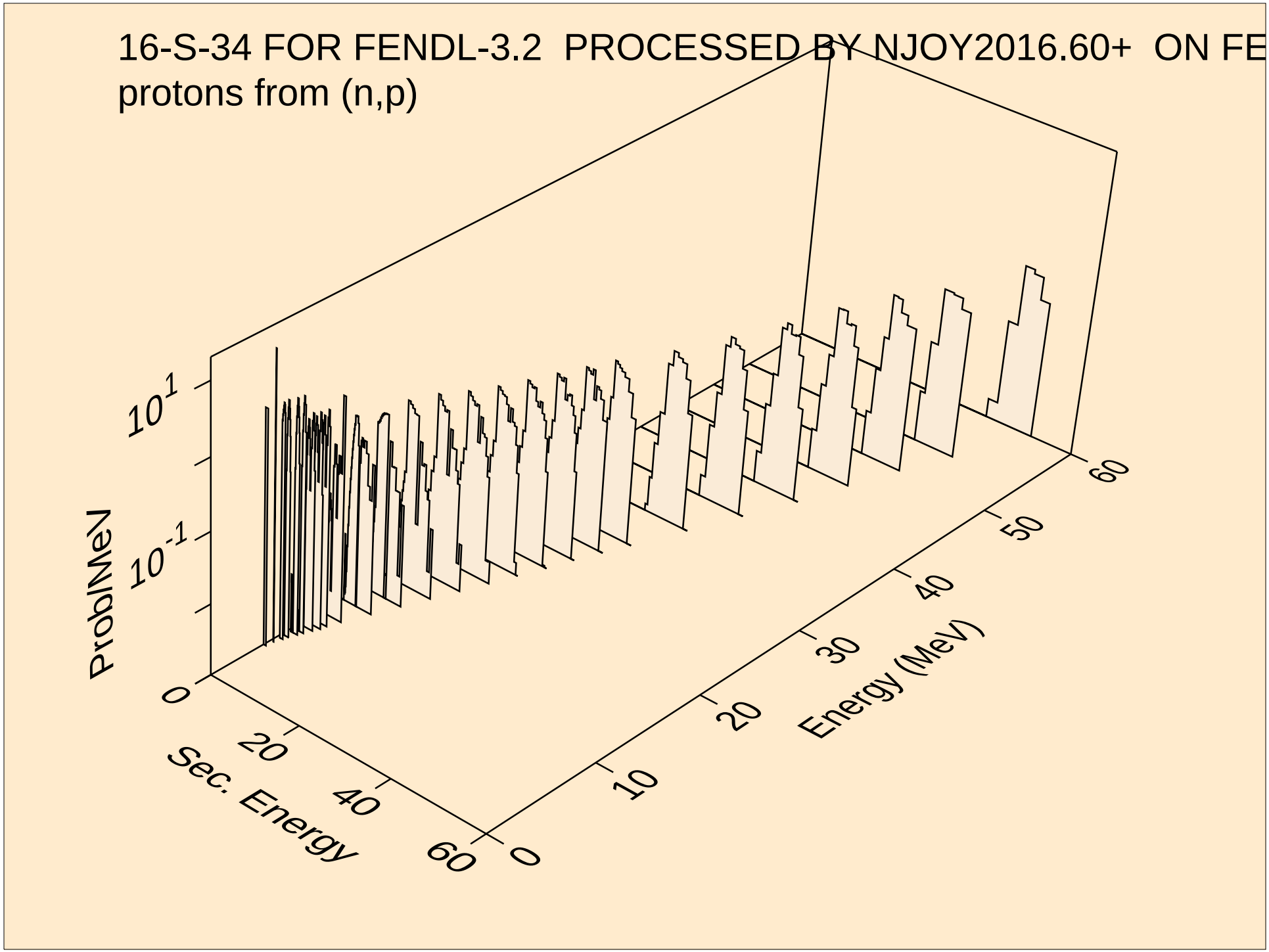

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,n*)p
Prob/MeV
10^1
10^-1
10^-3
0
20
40
60
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

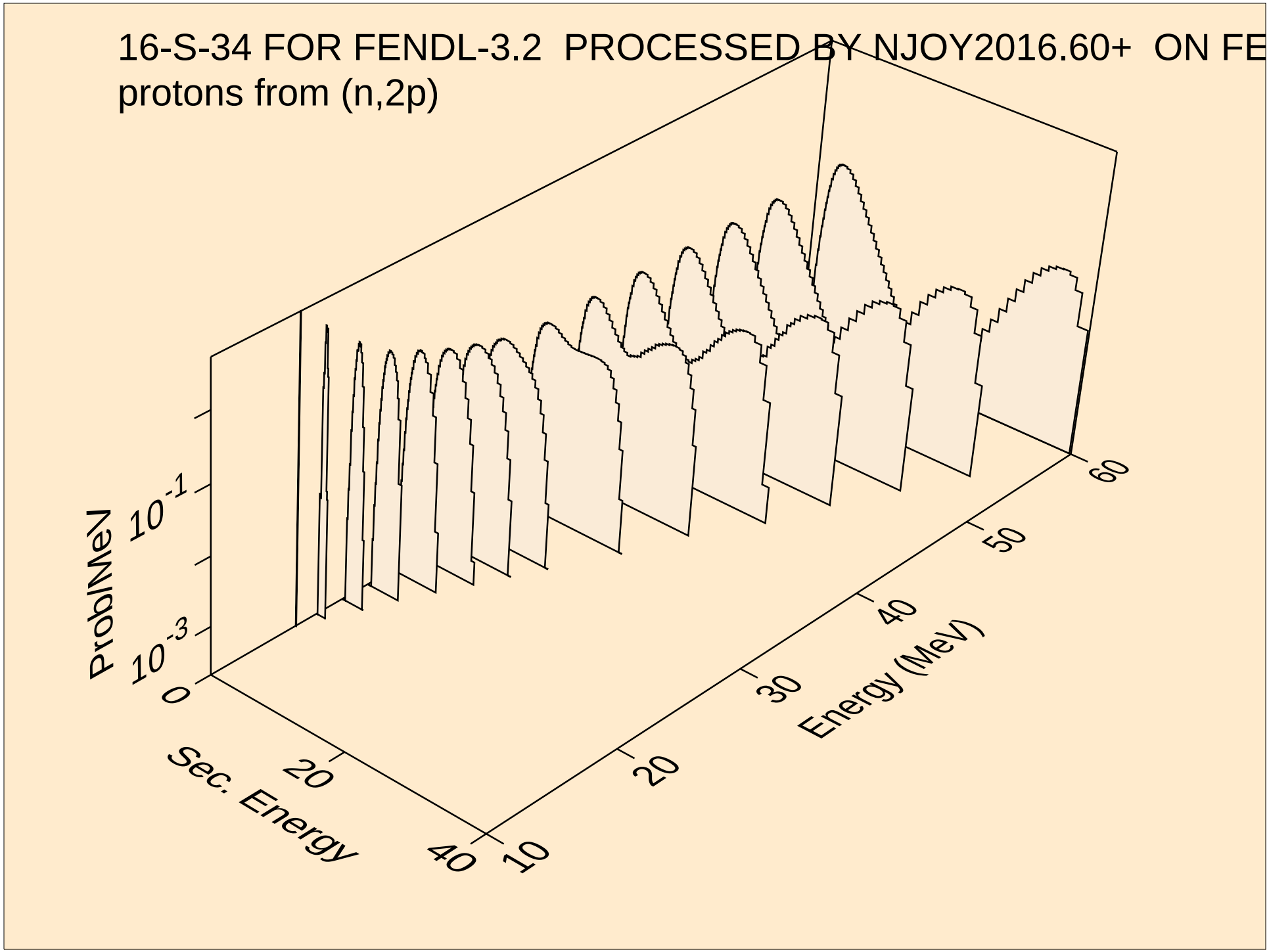

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,2np)
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
20
40
Energy (MeV)
20
25
30
35
40
45
50
55
60

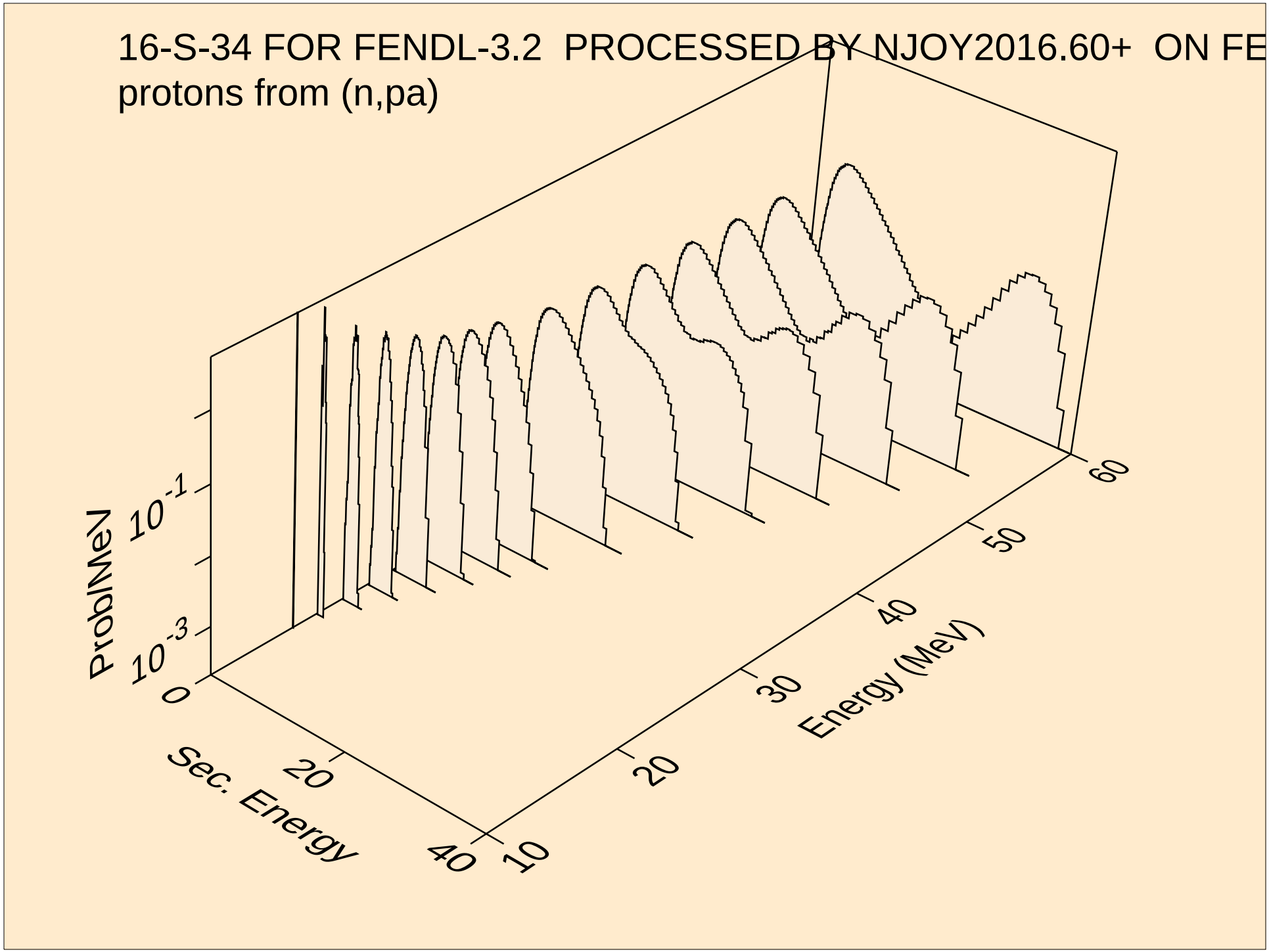

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,3np)
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

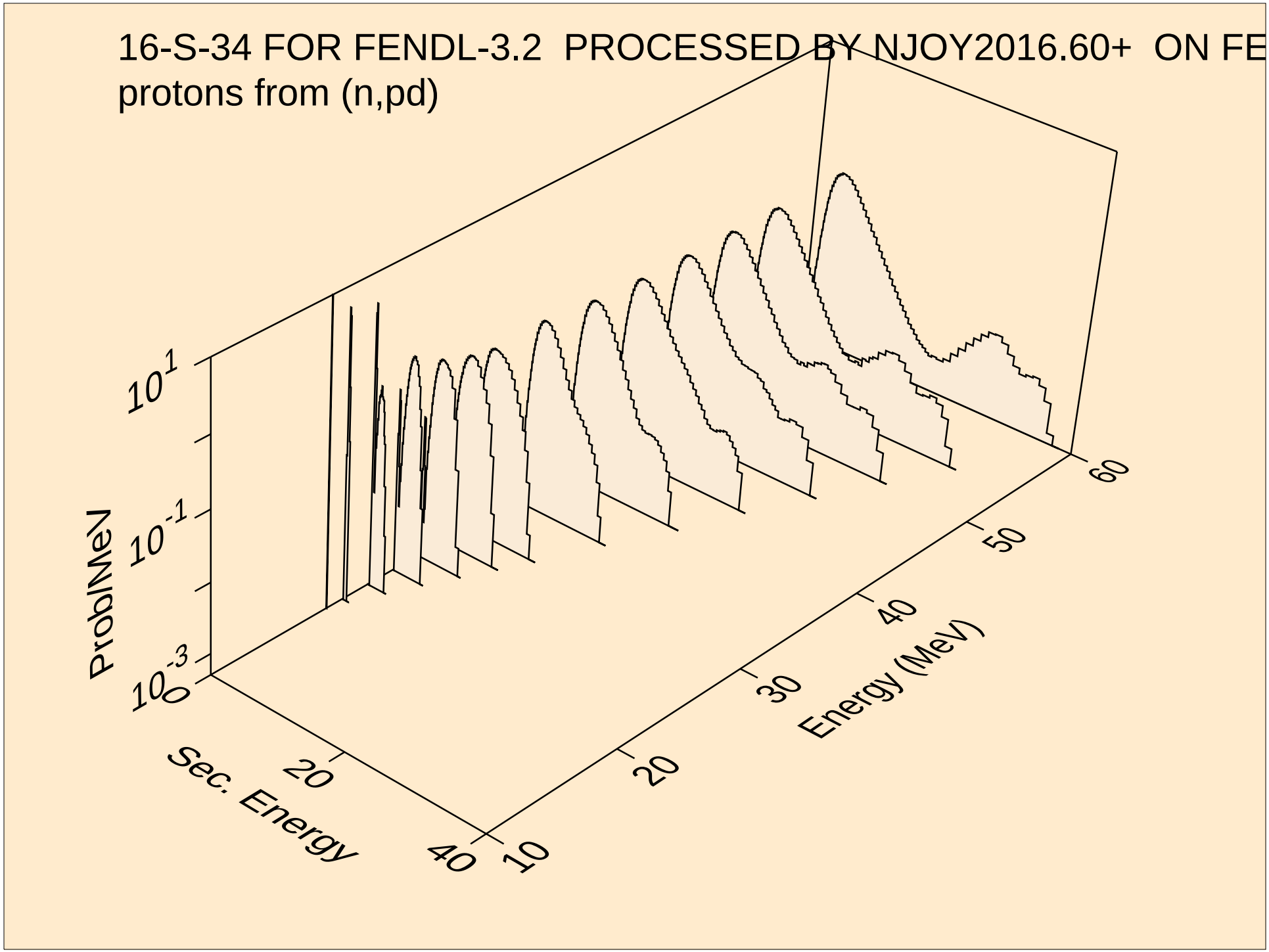

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,2np)
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
20
40
Energy (MeV)
20
25
30
35
40
45
50
55
60

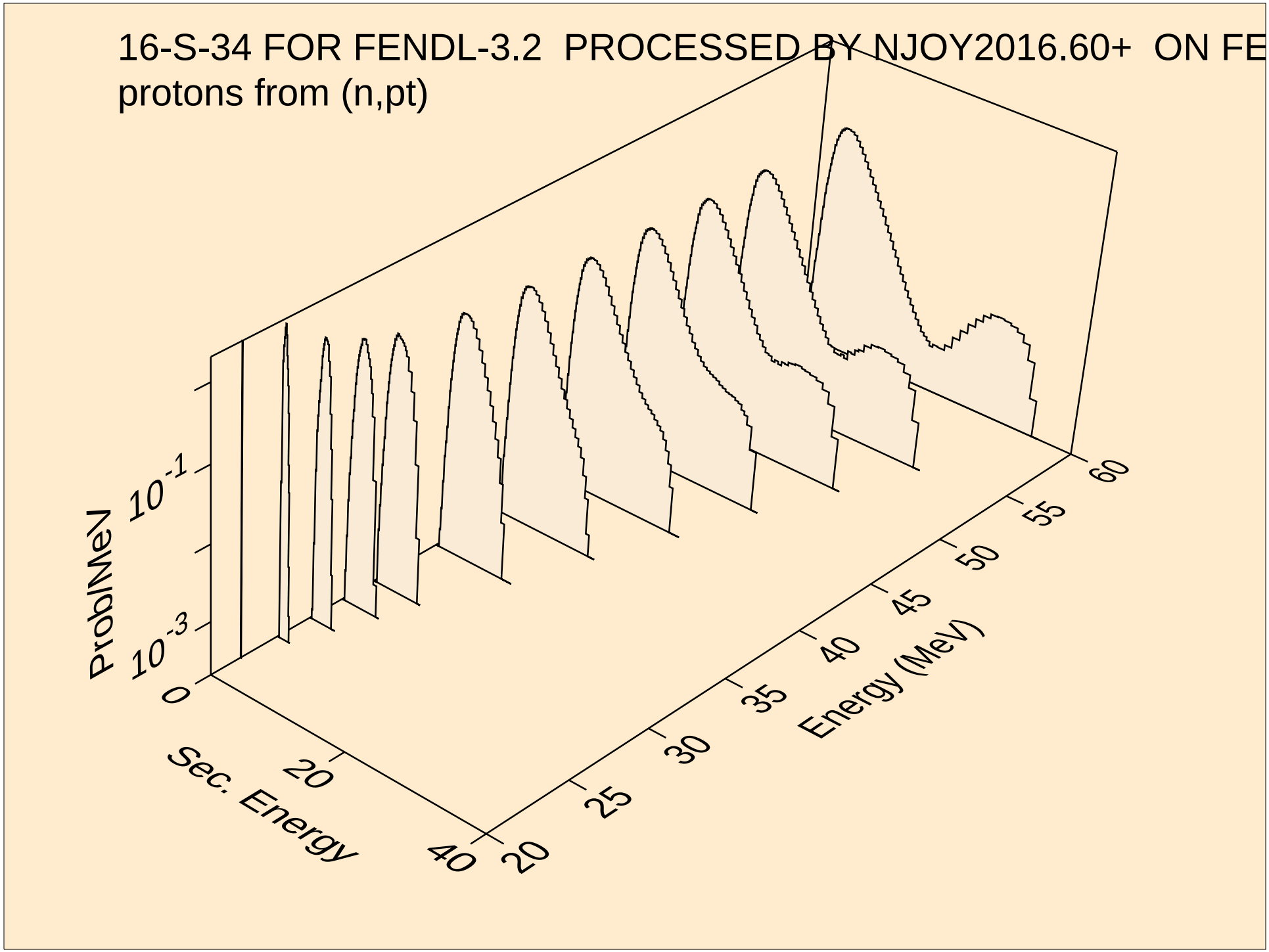

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

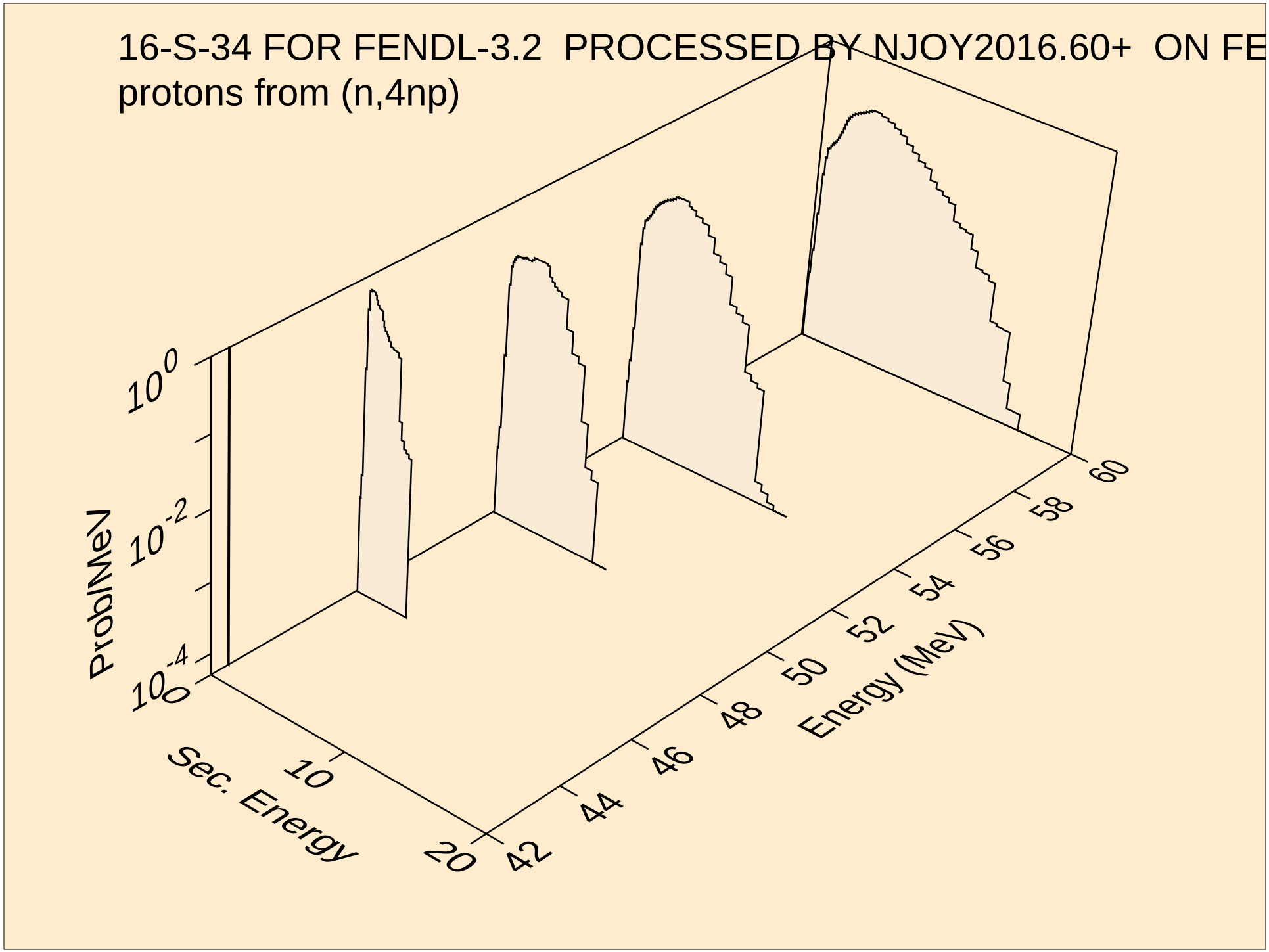

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,p)
Prob/MeV
10^1
10^-1
0
20
40
60
Sec. Energy
0
10
20
30
40
50
60
Energy (MeV)

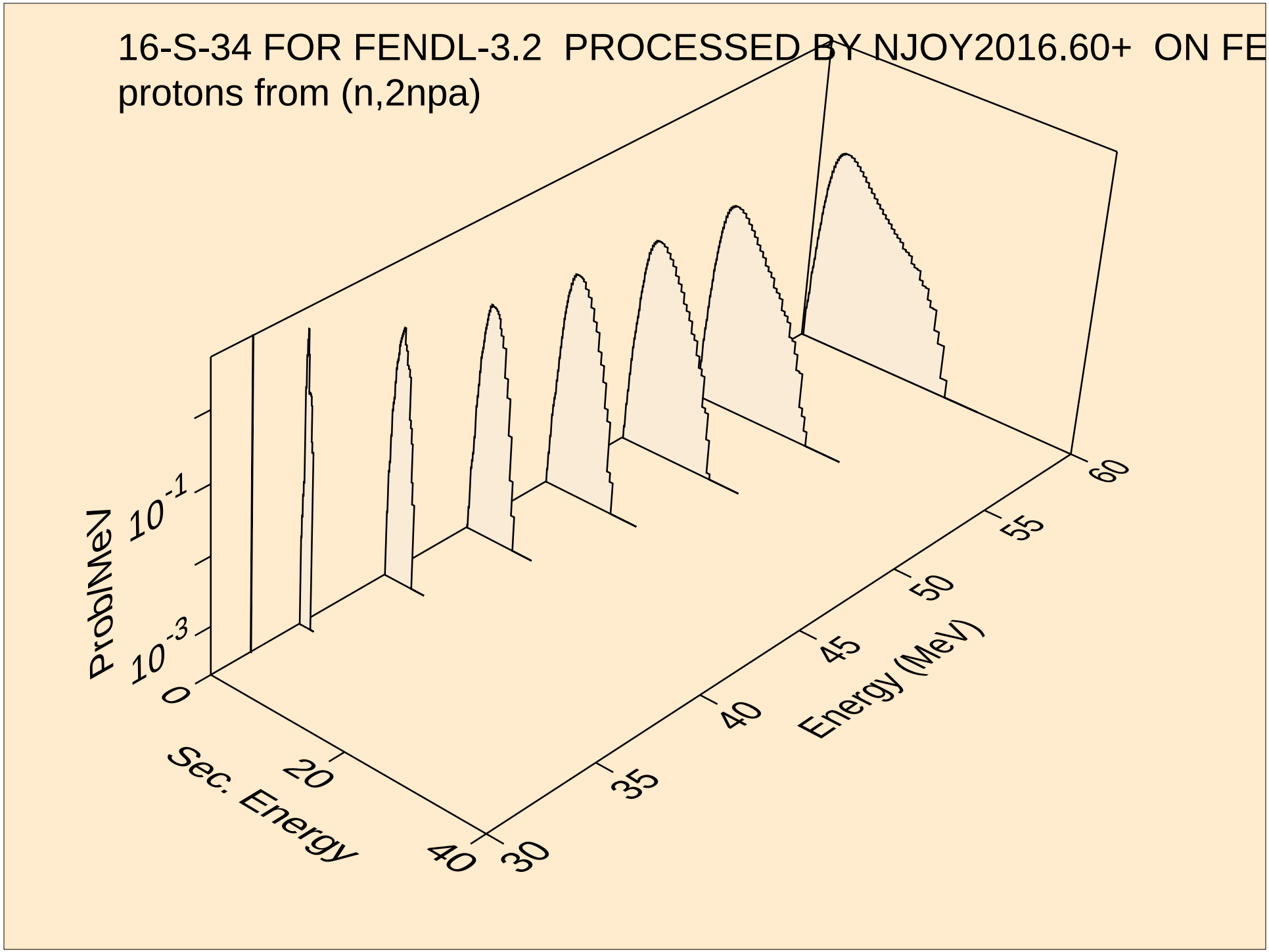

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,2p)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

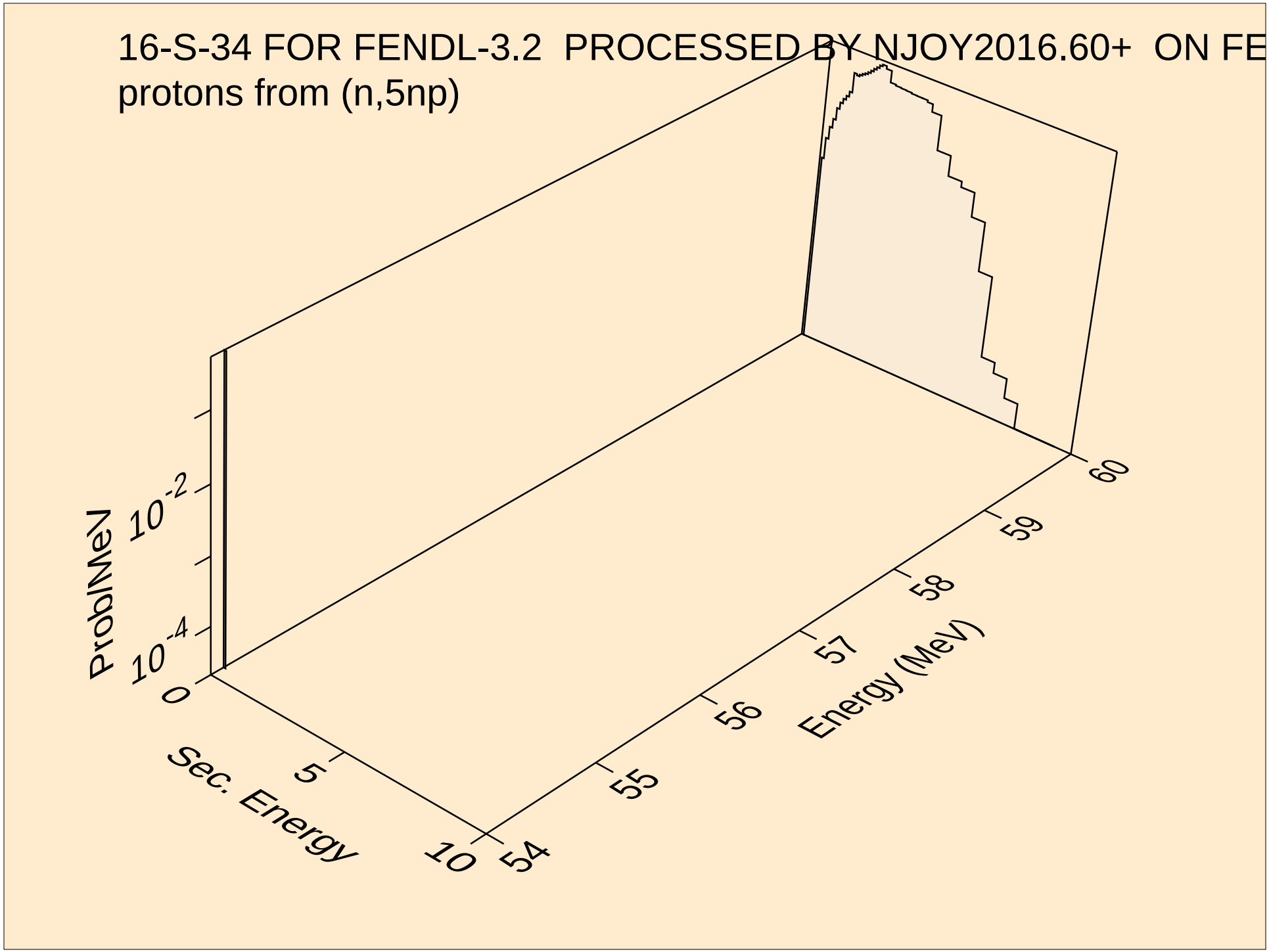

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,pa)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

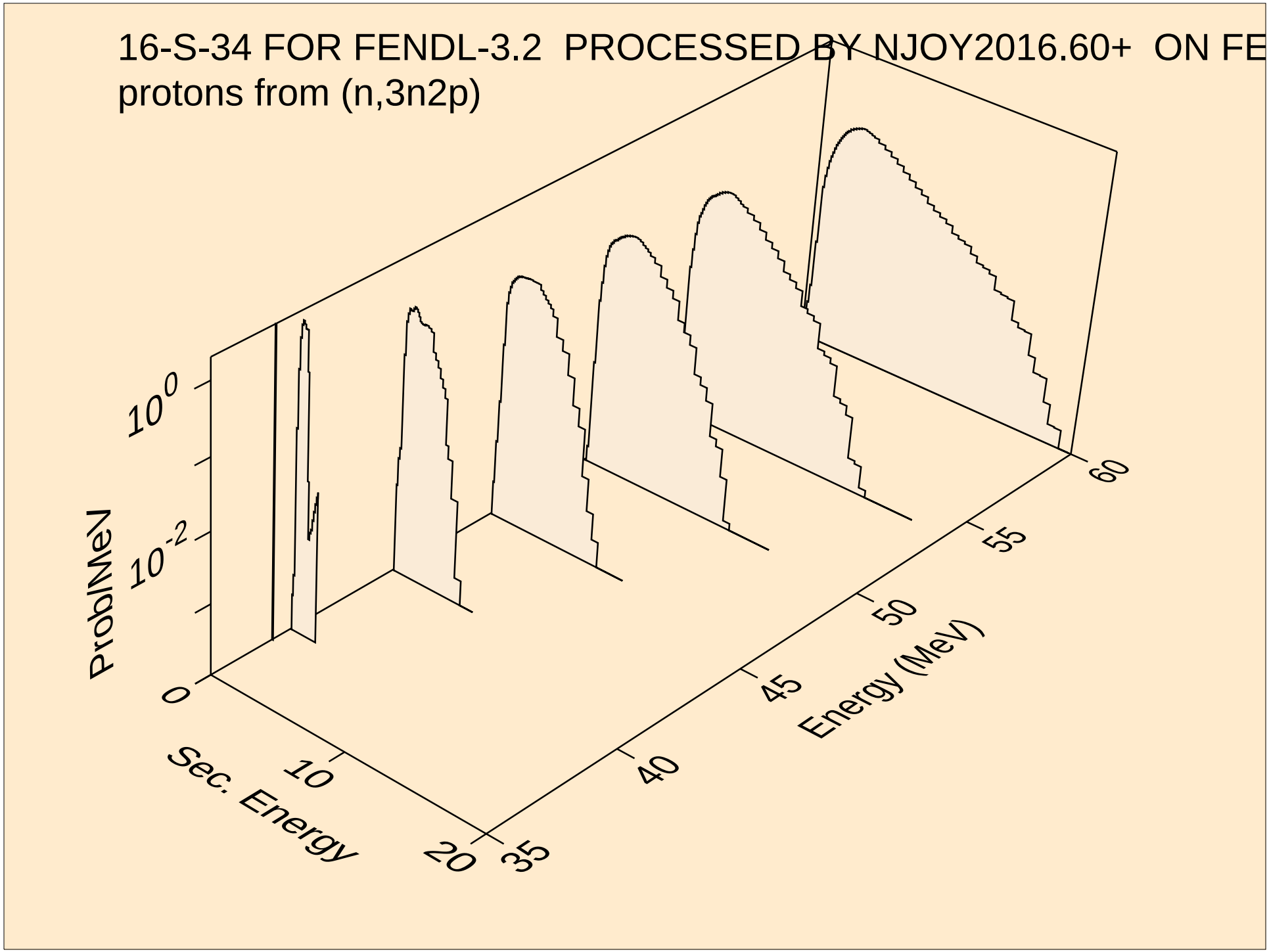

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,pd)
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

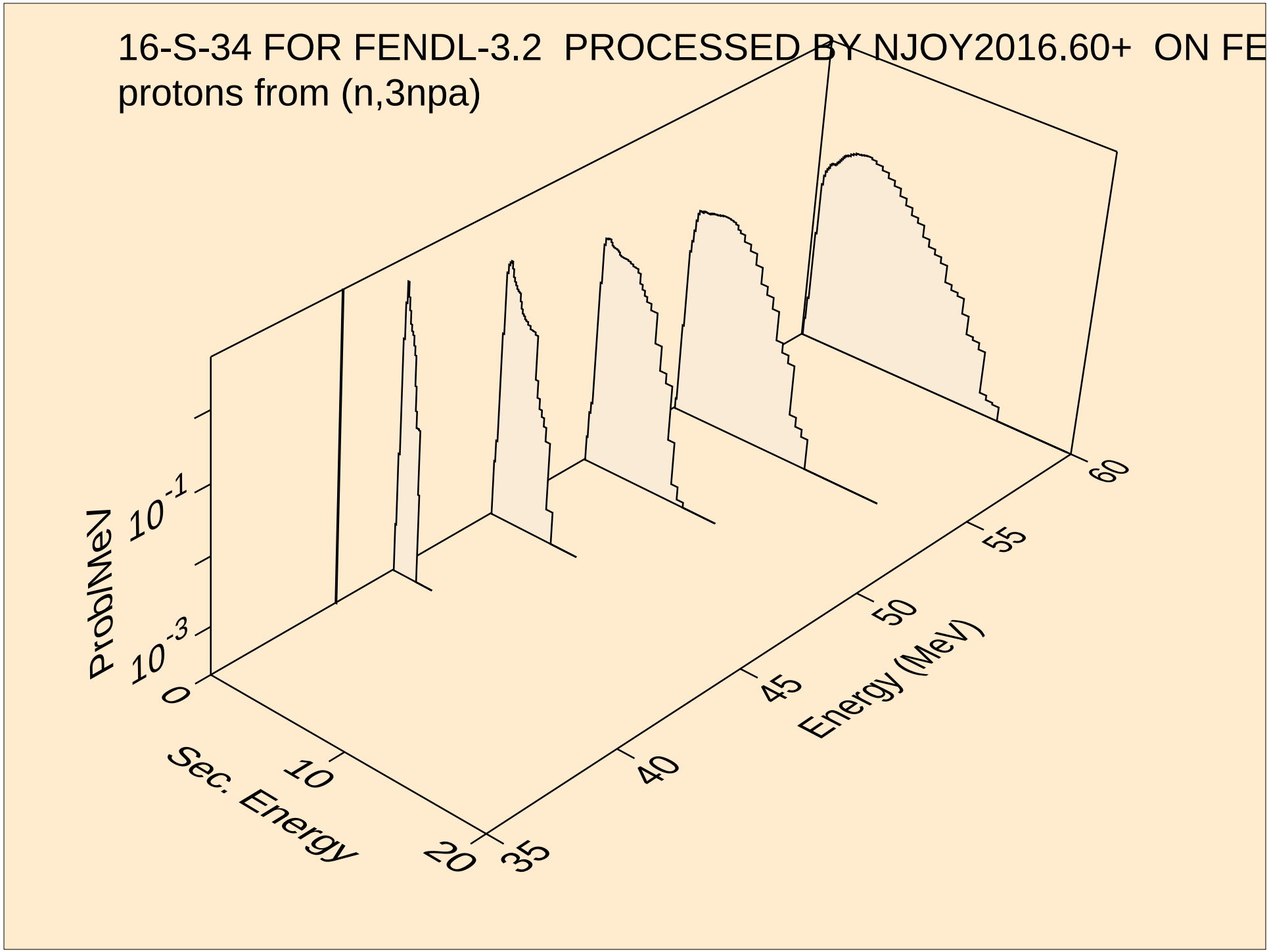

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,pt)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

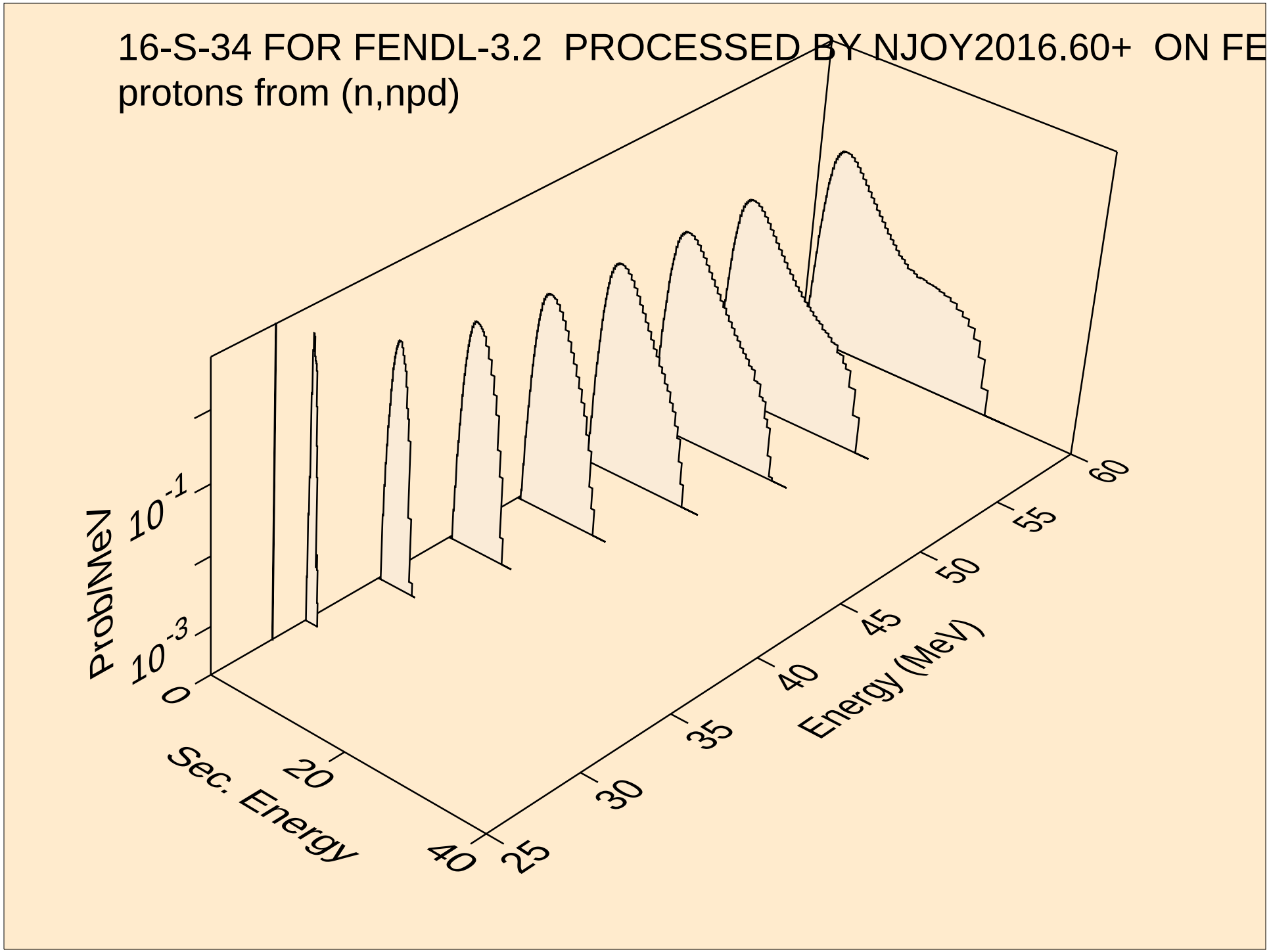

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,4np)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

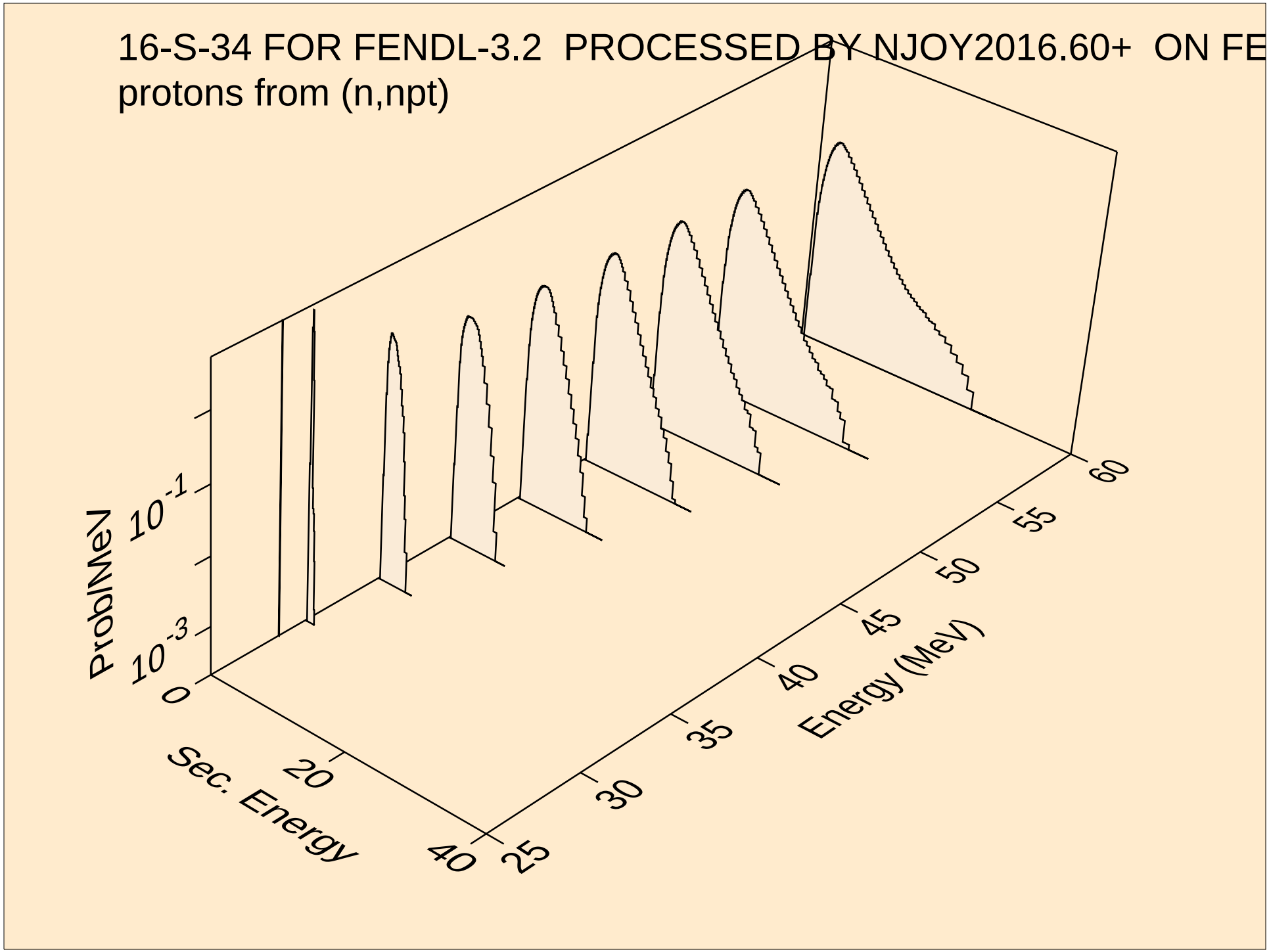

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,2npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
30
35
40
45
50
55
60
Energy (MeV)

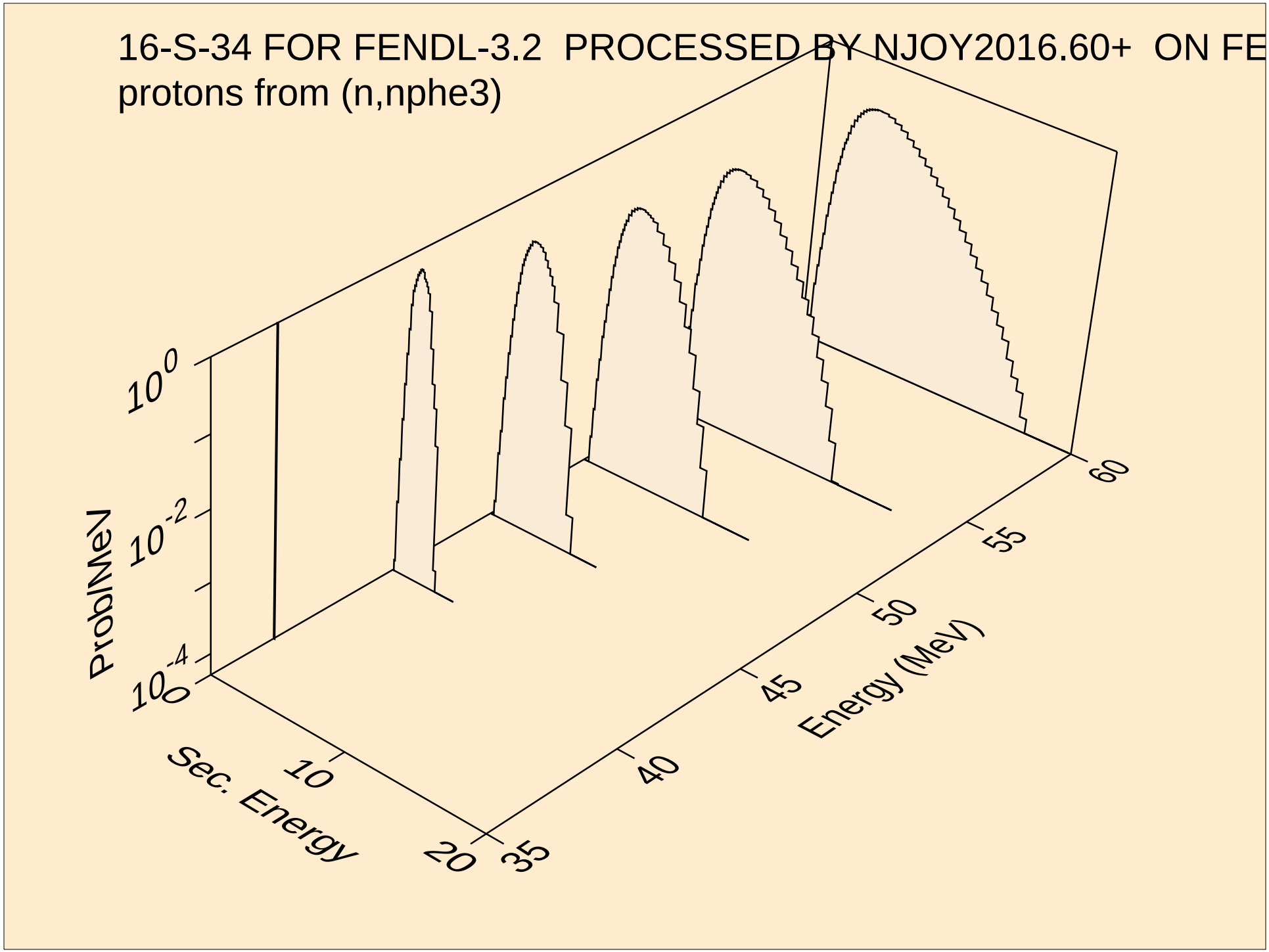

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,5np)
Prob/MeV
10-2
10-4
0
Sec. Energy
5
10
54
55
56
57
58
59
60
Energy (MeV)

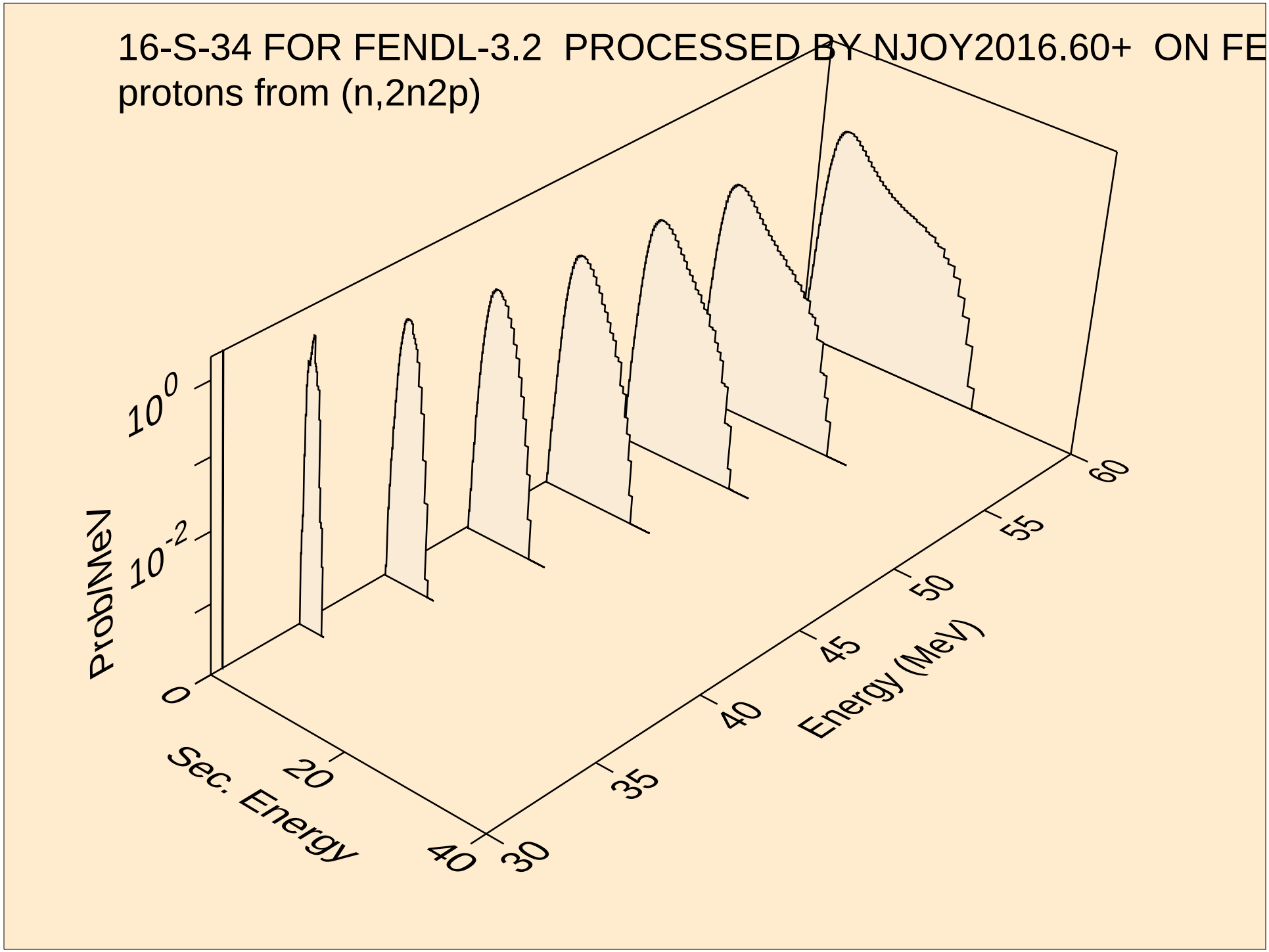

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,3n2p)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
35
40
45
Energy (MeV)
50
55
60

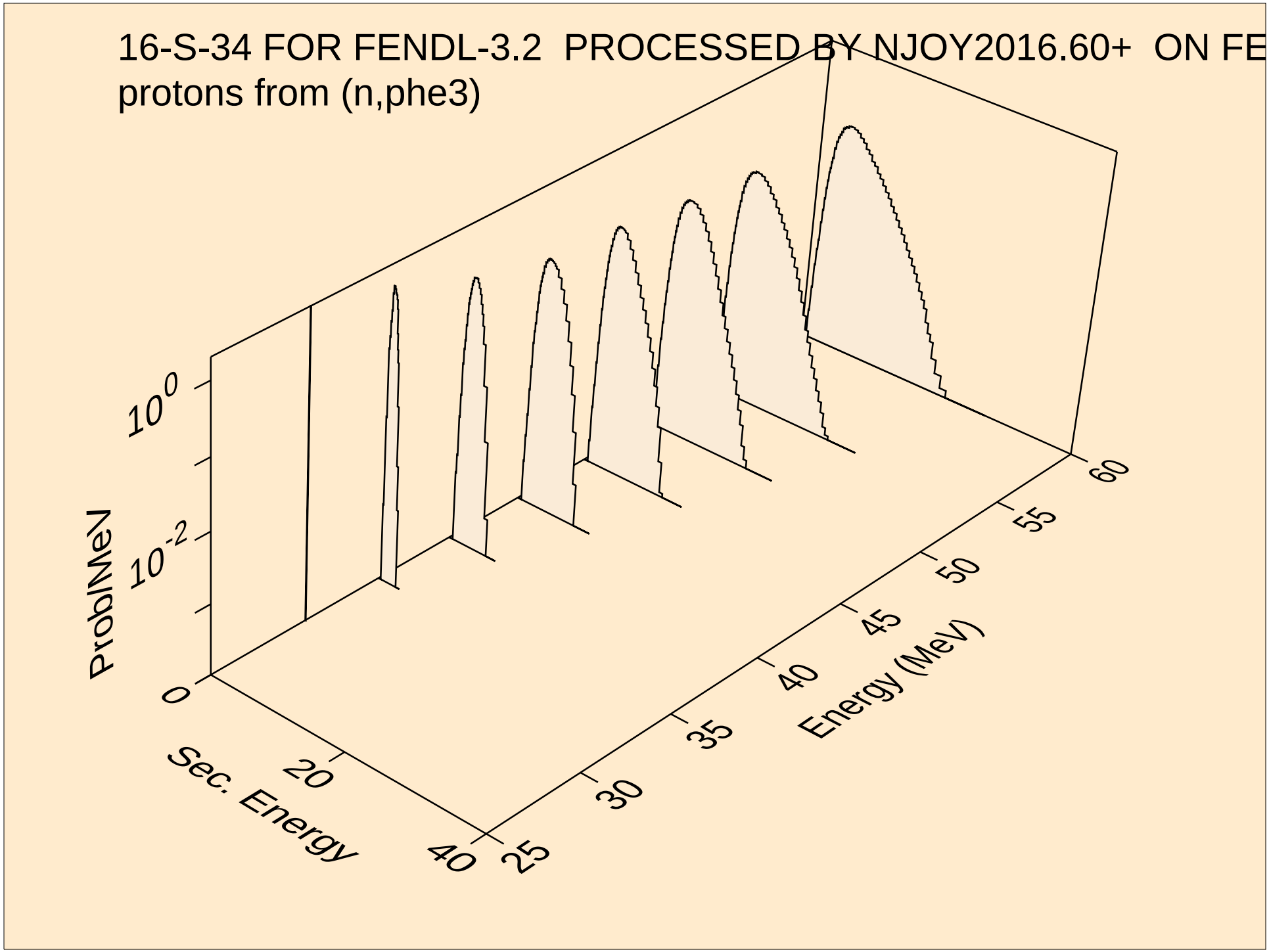

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,3npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
35
40
45
Energy (MeV)
50
55
60

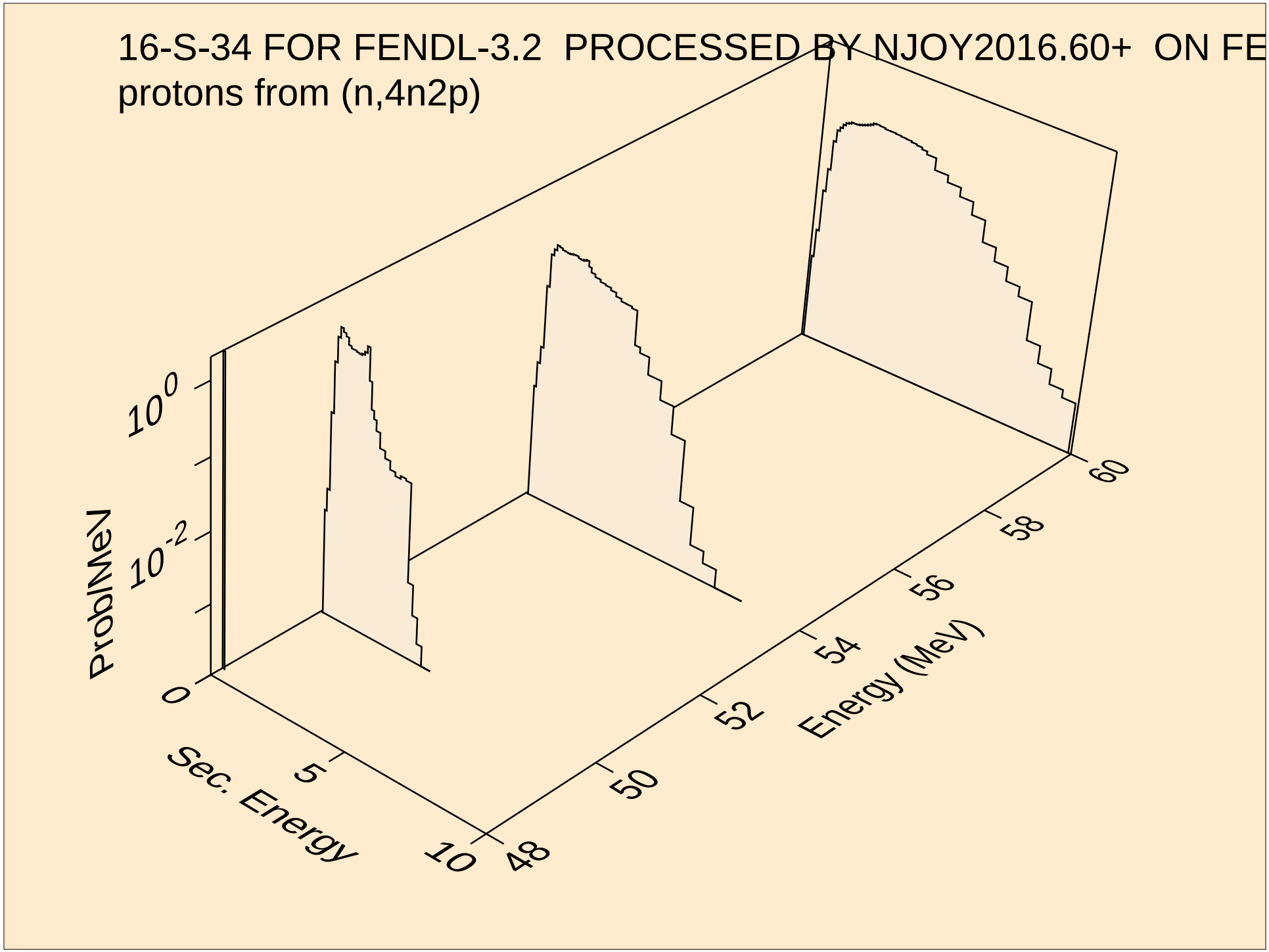

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,npd)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

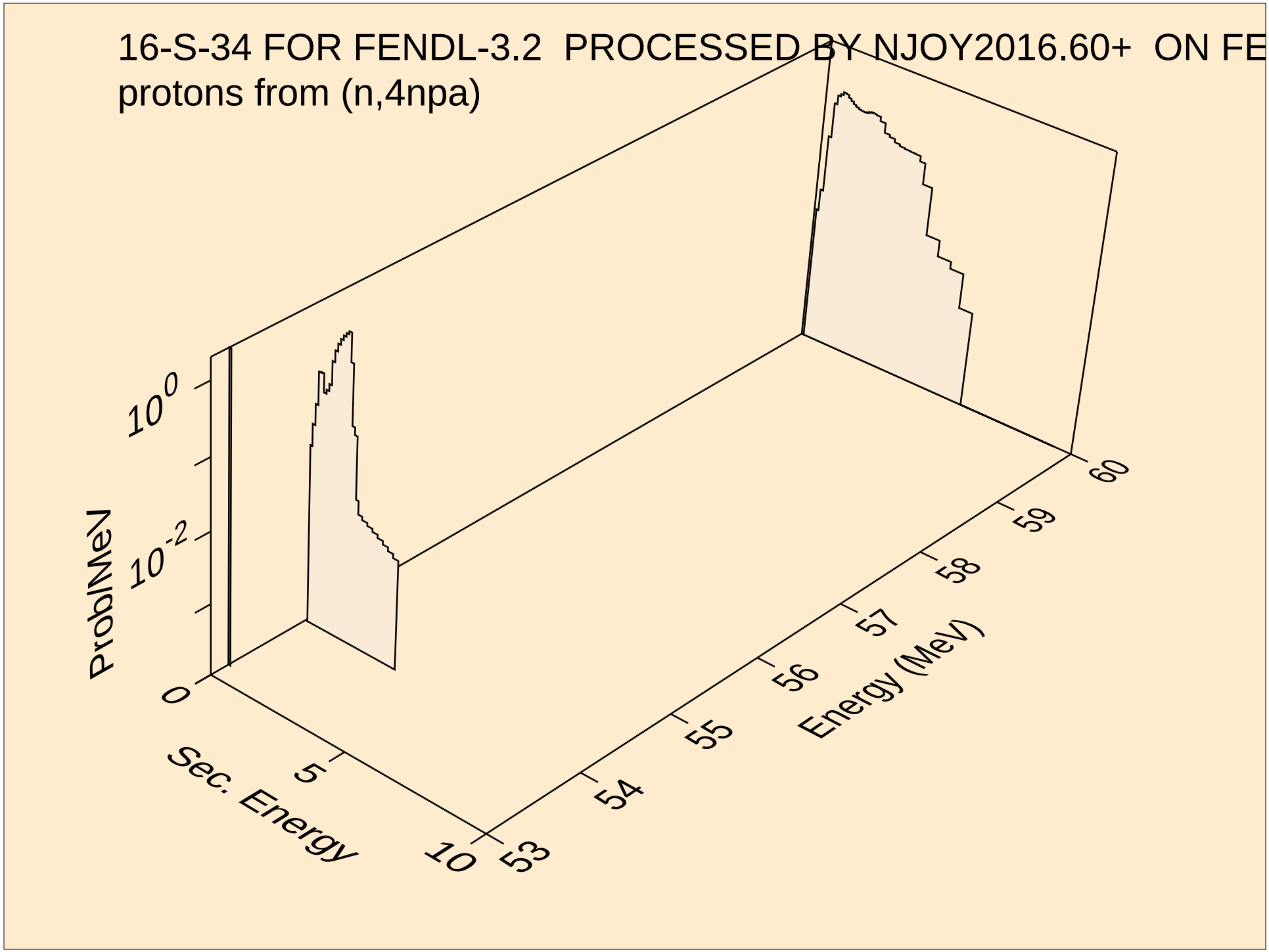

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,npt)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

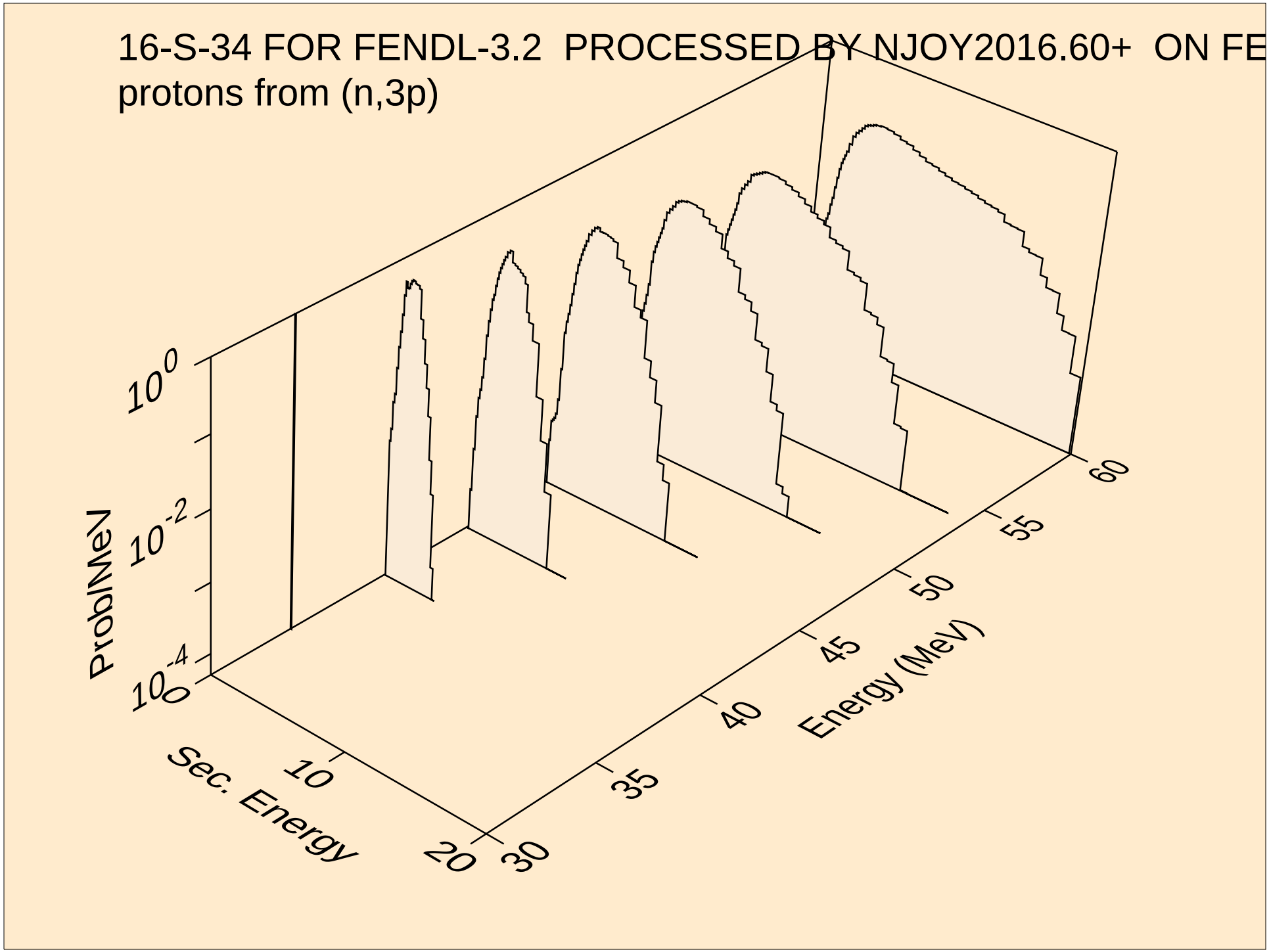

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,nphe3)
Prob/MeV
10^0
10^-2
10^-4
Sec. Energy
0
10
20
35
Energy (MeV)
40
45
50
55
60

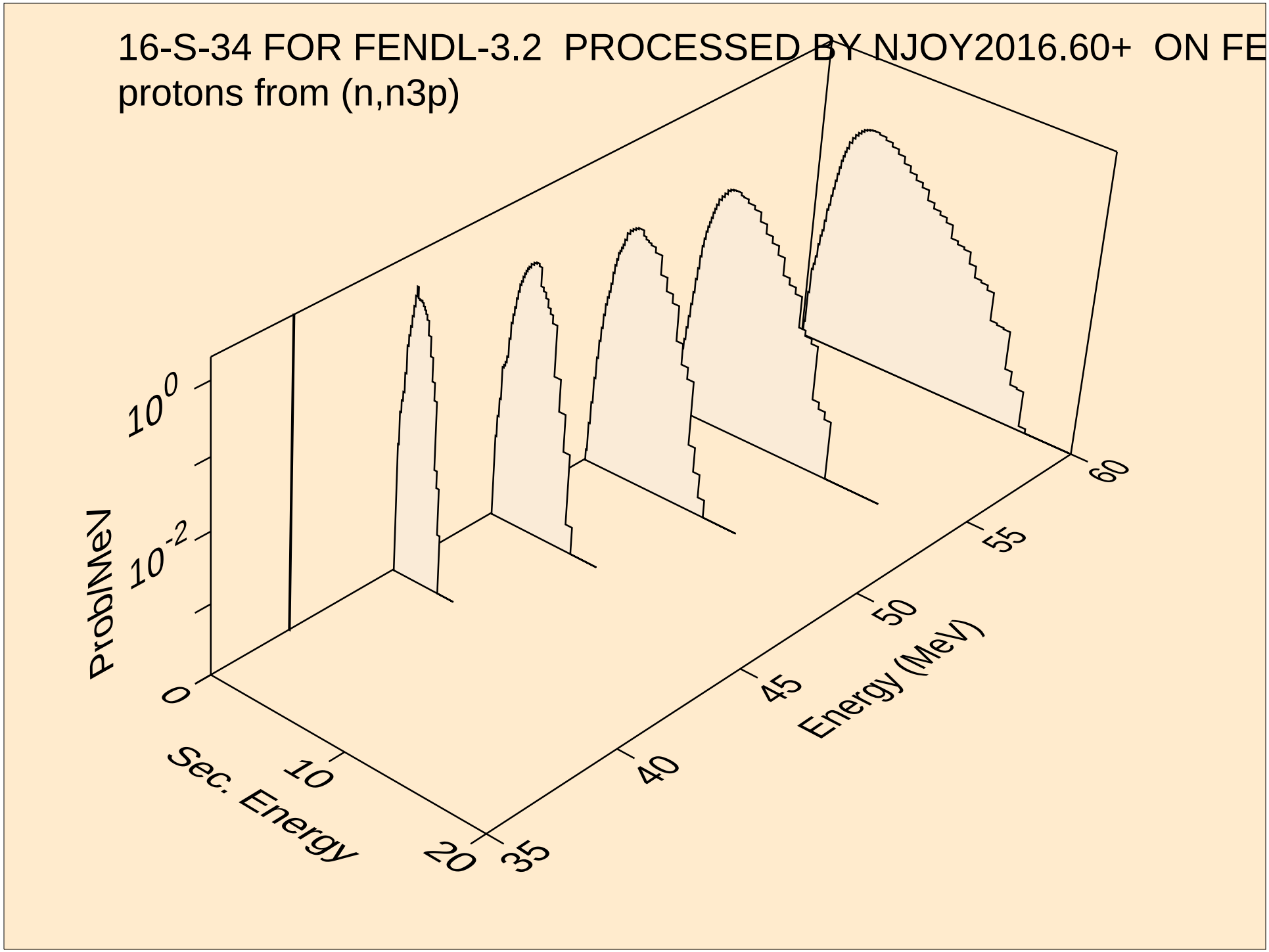

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,2n2p)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
30
35
40
45
50
55
60
Energy (MeV)

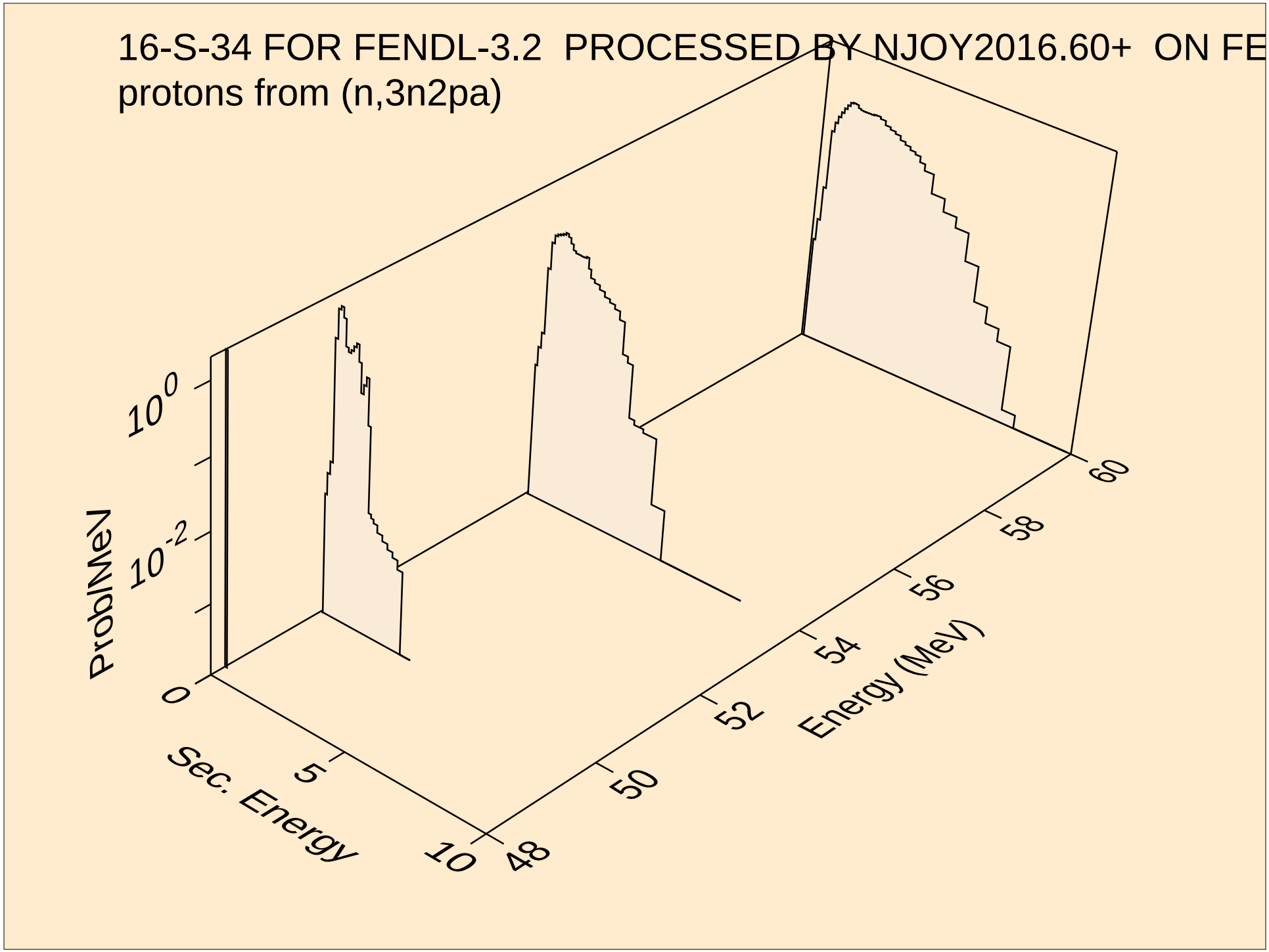

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,phe3)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

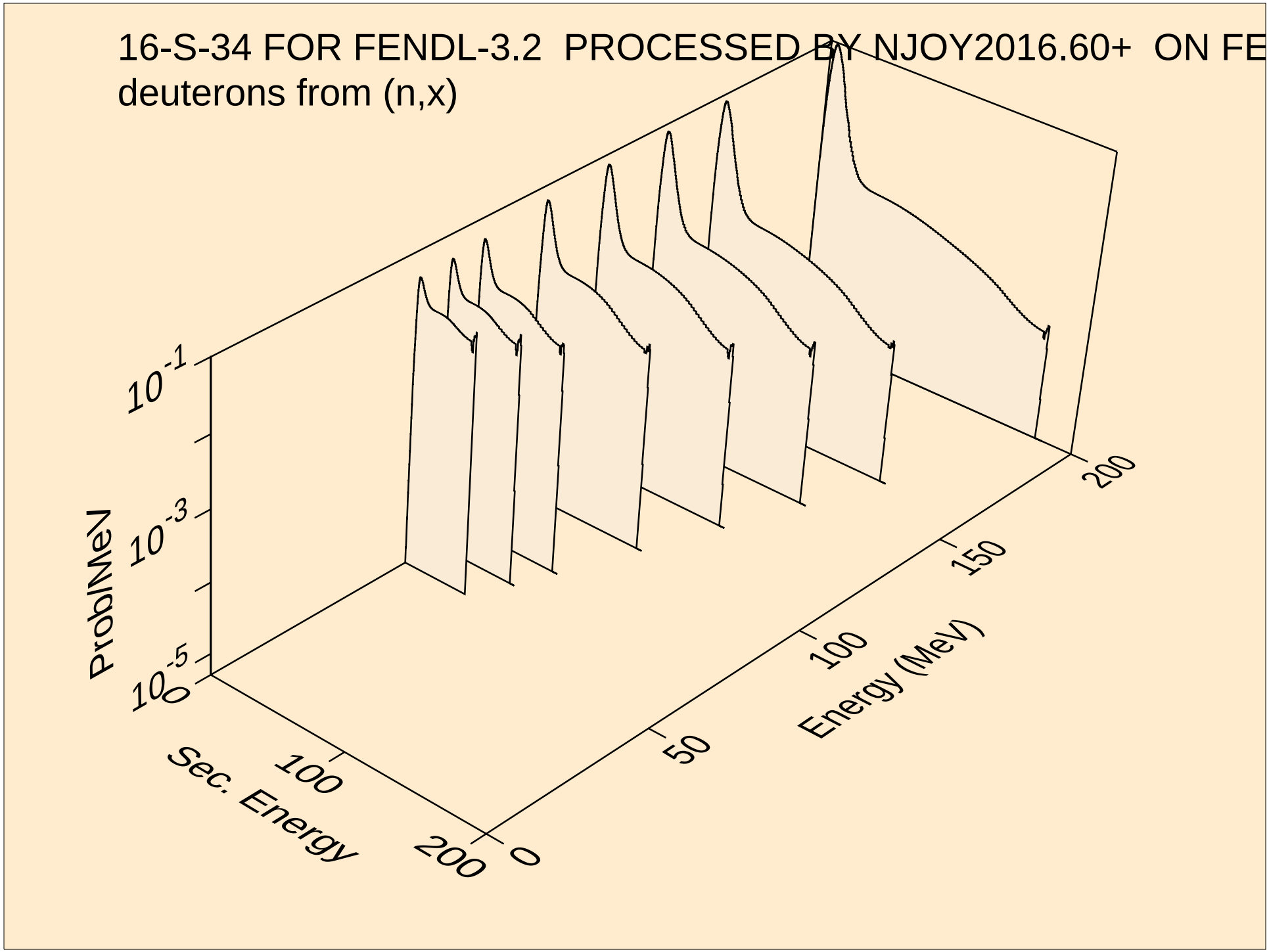

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,4n2p)
Prob/MeV
10^{0}
10^{-2}
0
5
10
Sec. Energy
48
50
52
54
56
58
60
Energy (MeV)

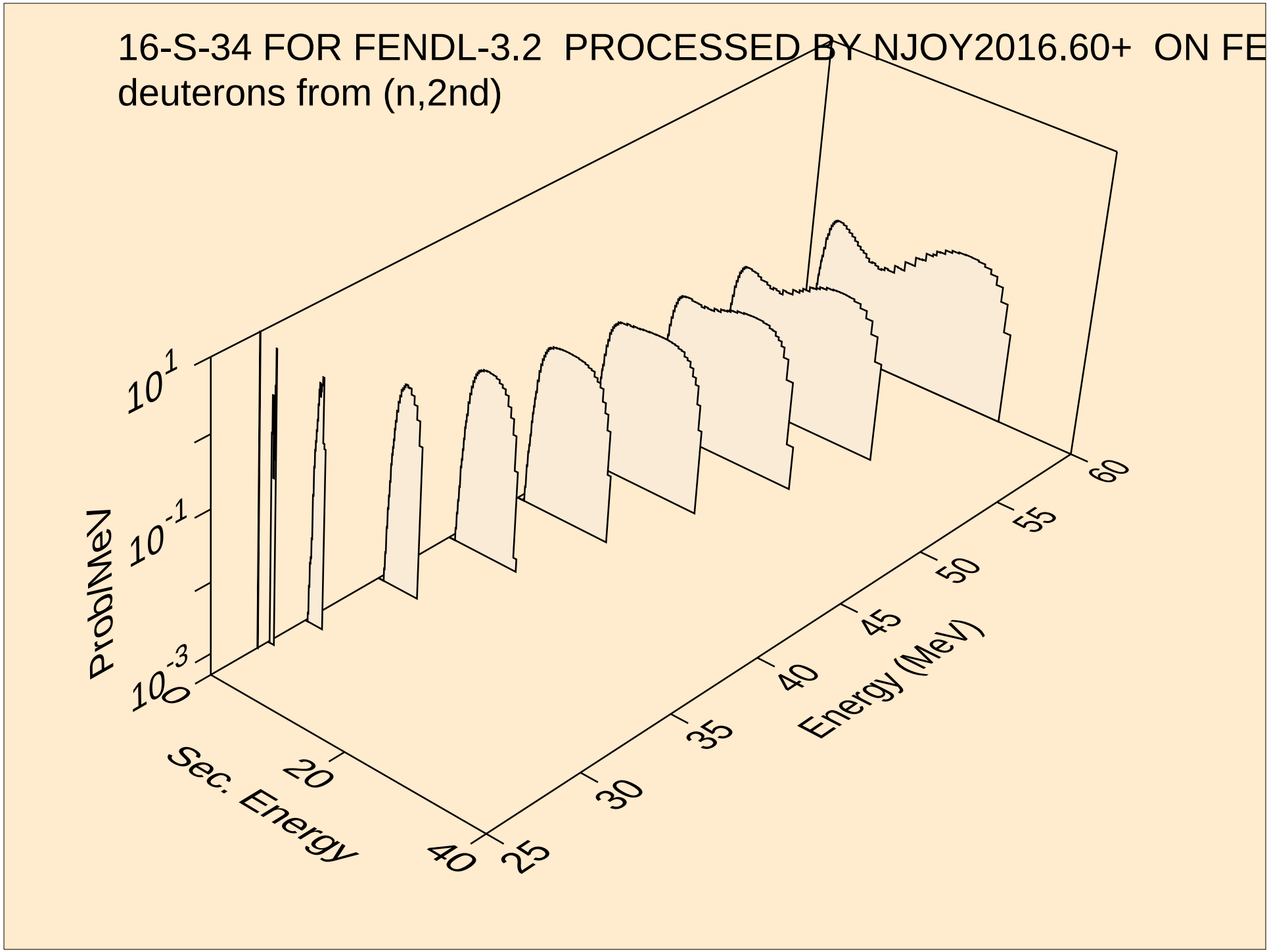

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,4npa)
Prob/MeV
10^0
10^-2
0
Sec. Energy
5
10
53
54
55
56
57
58
59
60
Energy (MeV)

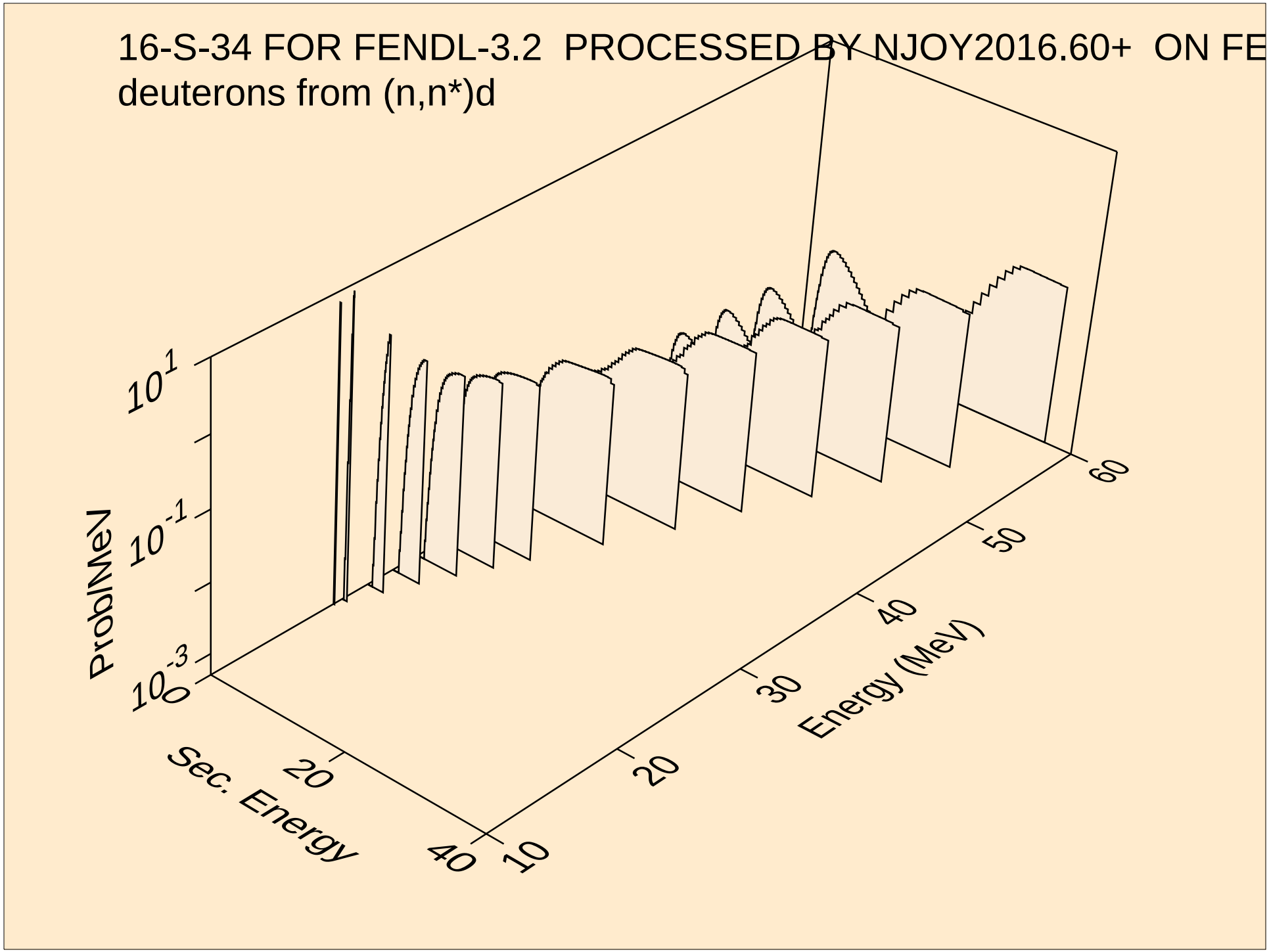

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,3p)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
30
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

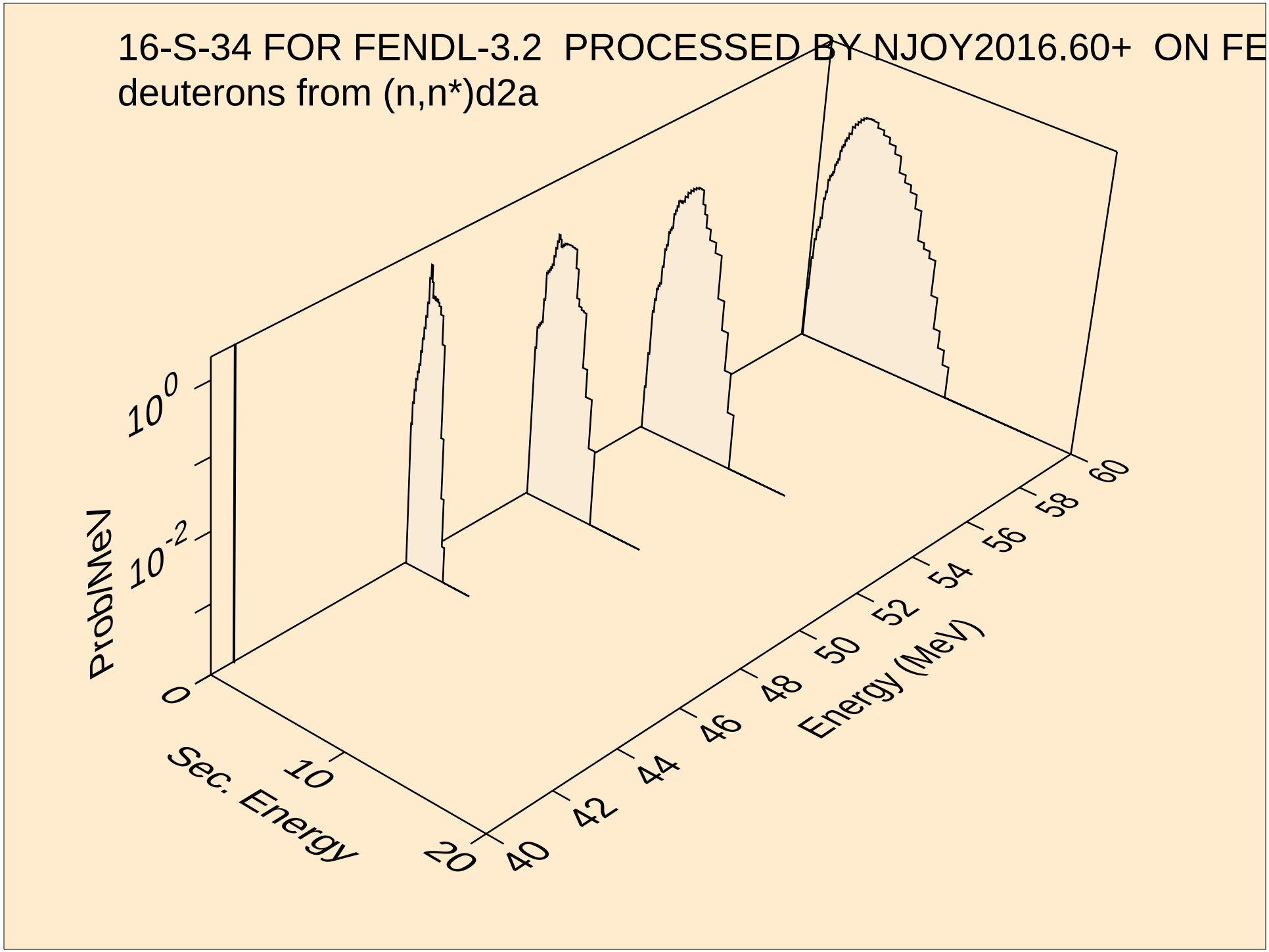

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,n3p)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
35
40
45
Energy (MeV)
50
55
60

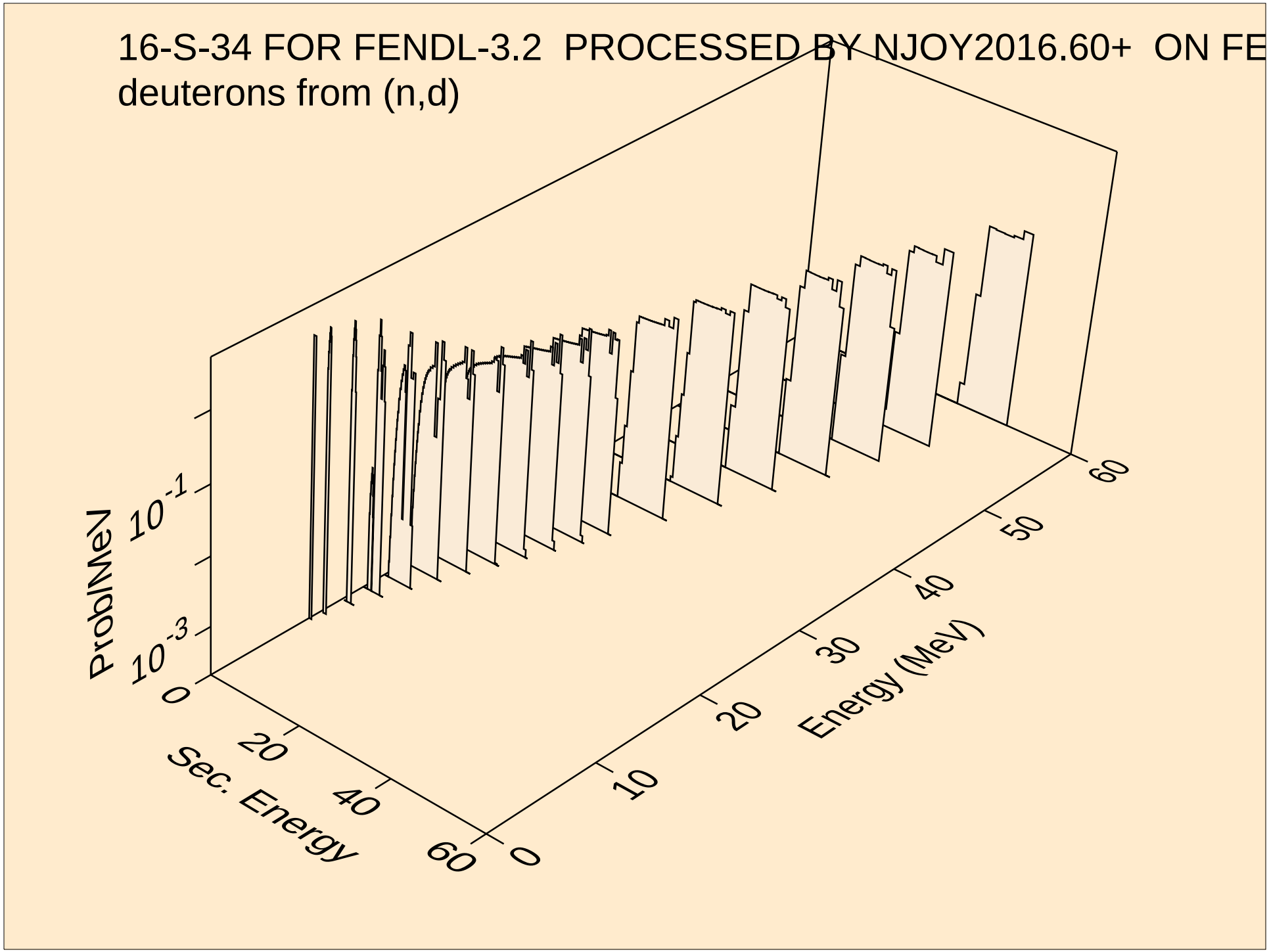

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
protons from (n,3n2pa)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
5
10
48
50
52
54
56
58
60
Energy (MeV)

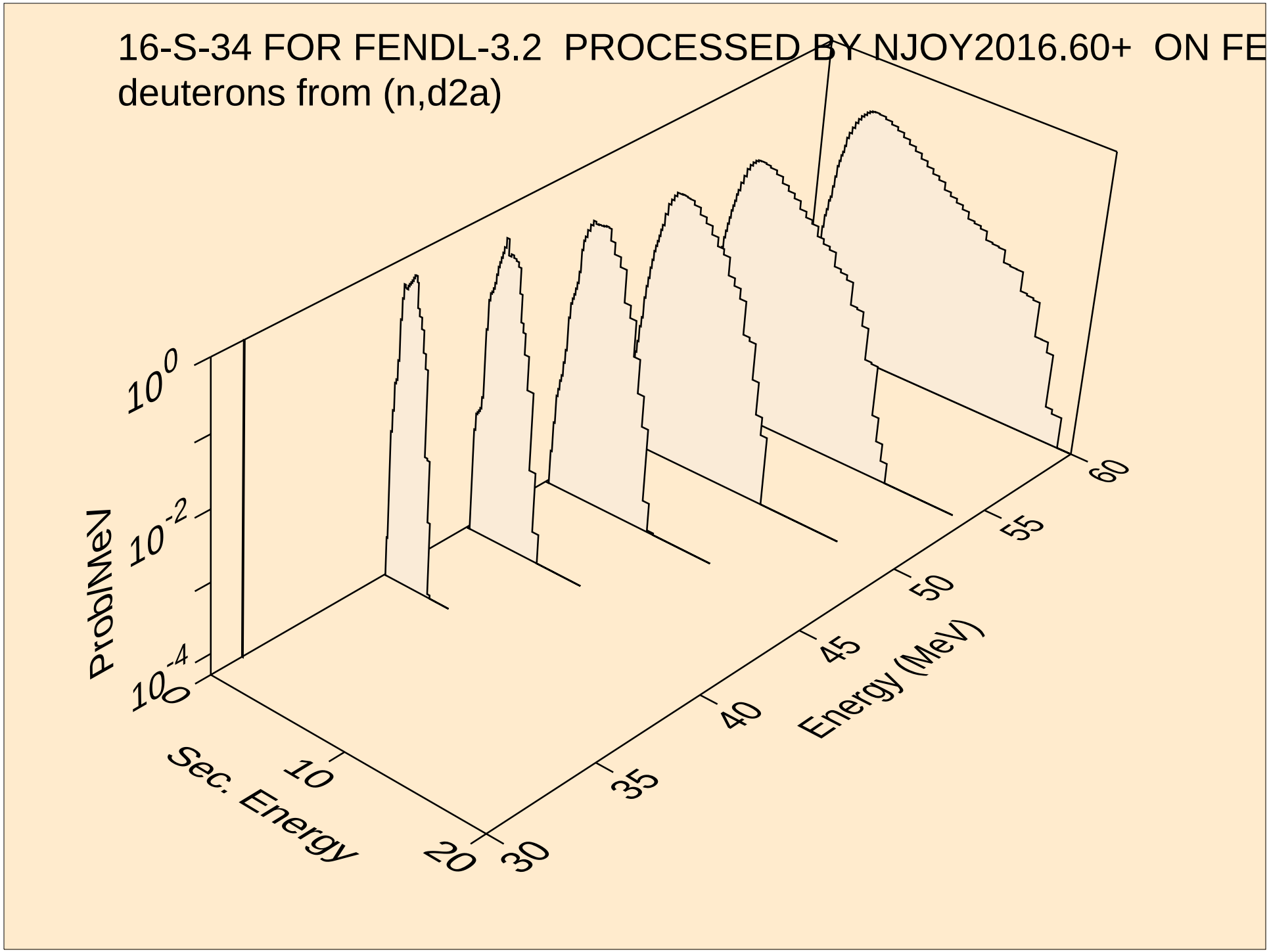

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,x)
Prob/MeV
10-1
10-3
10-5
0
100
200
Sec. Energy
0
50
100
150
200
Energy (MeV)

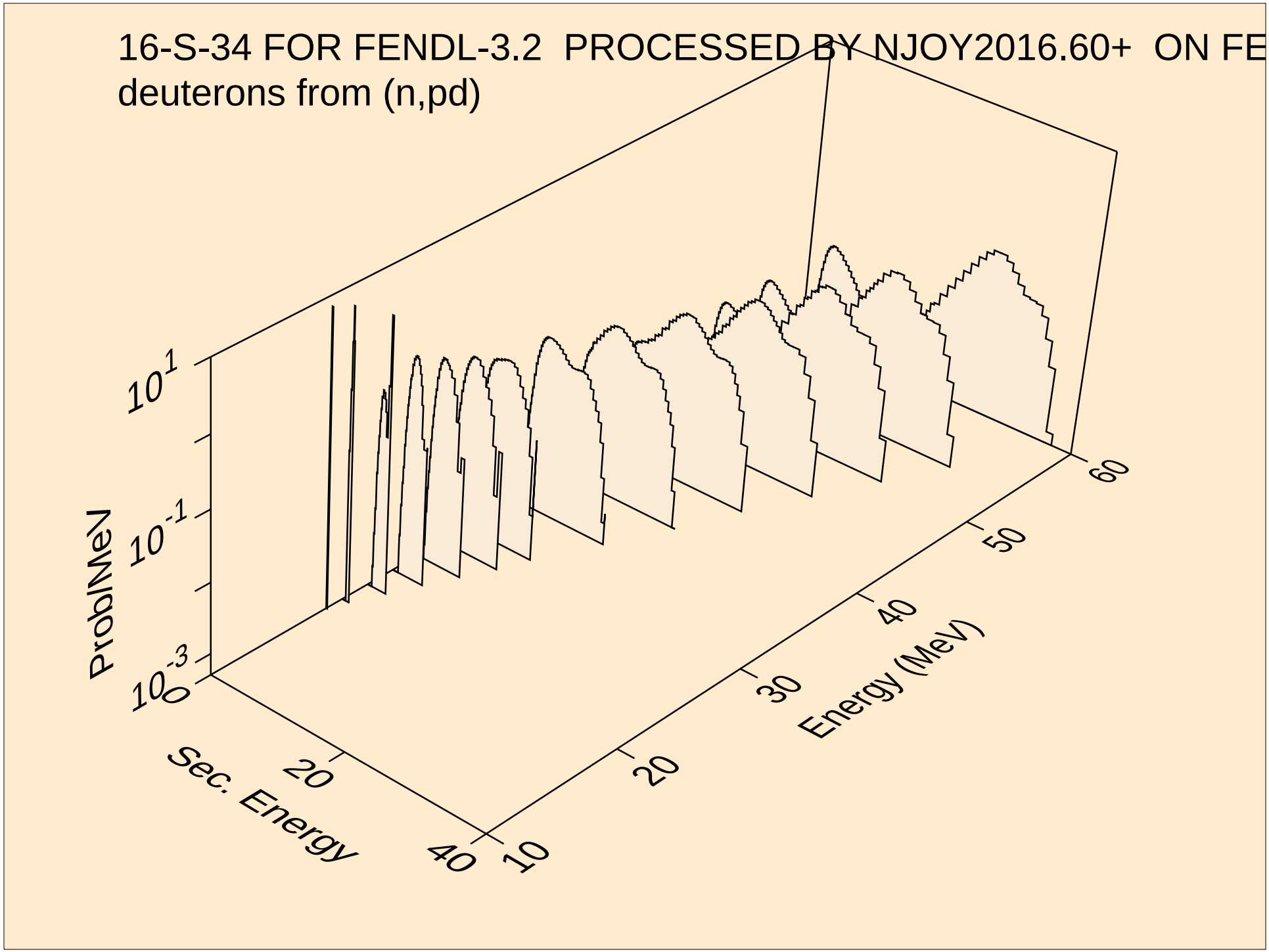

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,2nd)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
20
40
Sec. Energy
25
30
35
40
45
50
55
60
Energy (MeV)

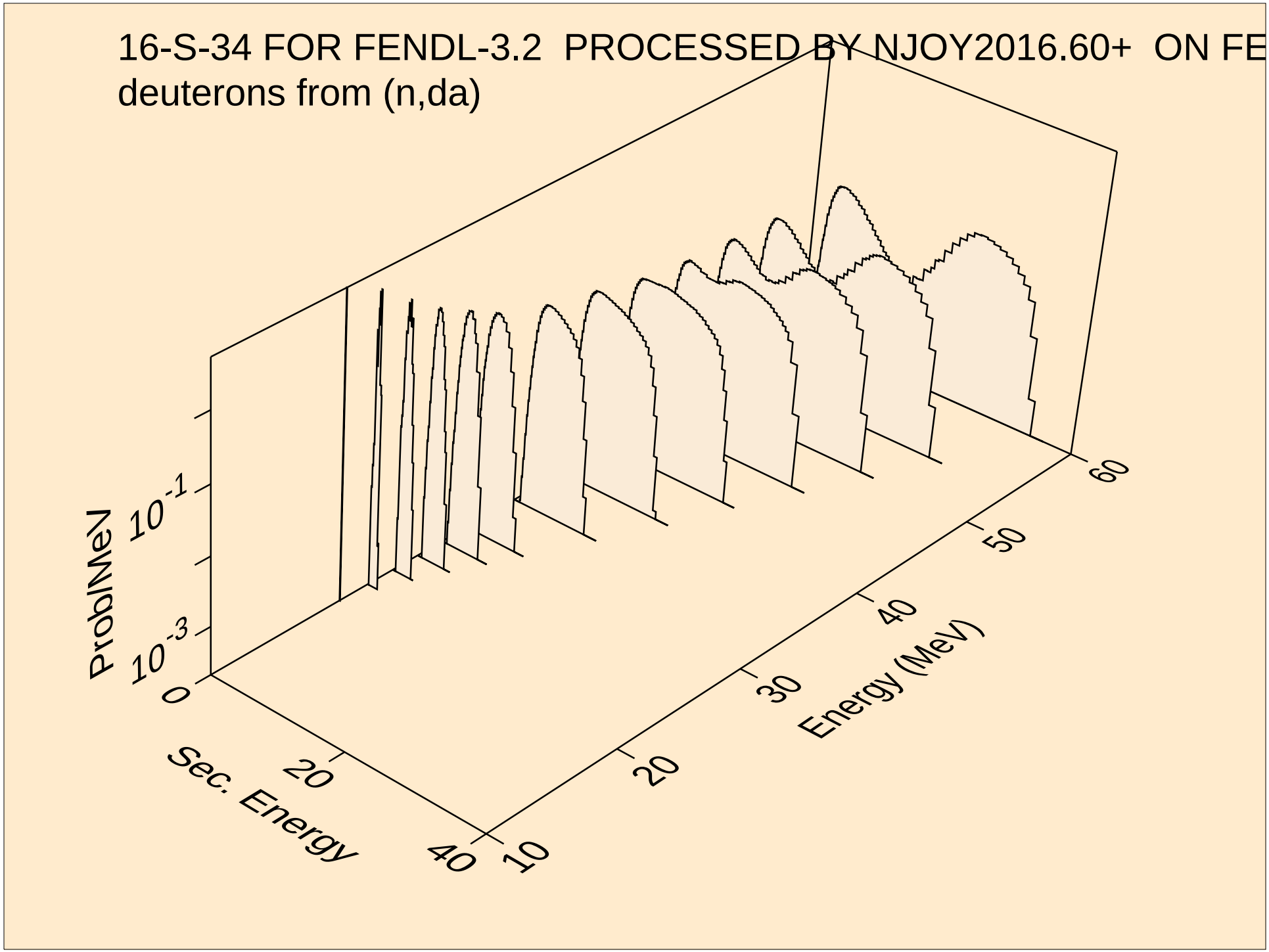

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,n*)d
Prob/MeV
10^1
10^-1
10^-3
0
20
40
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

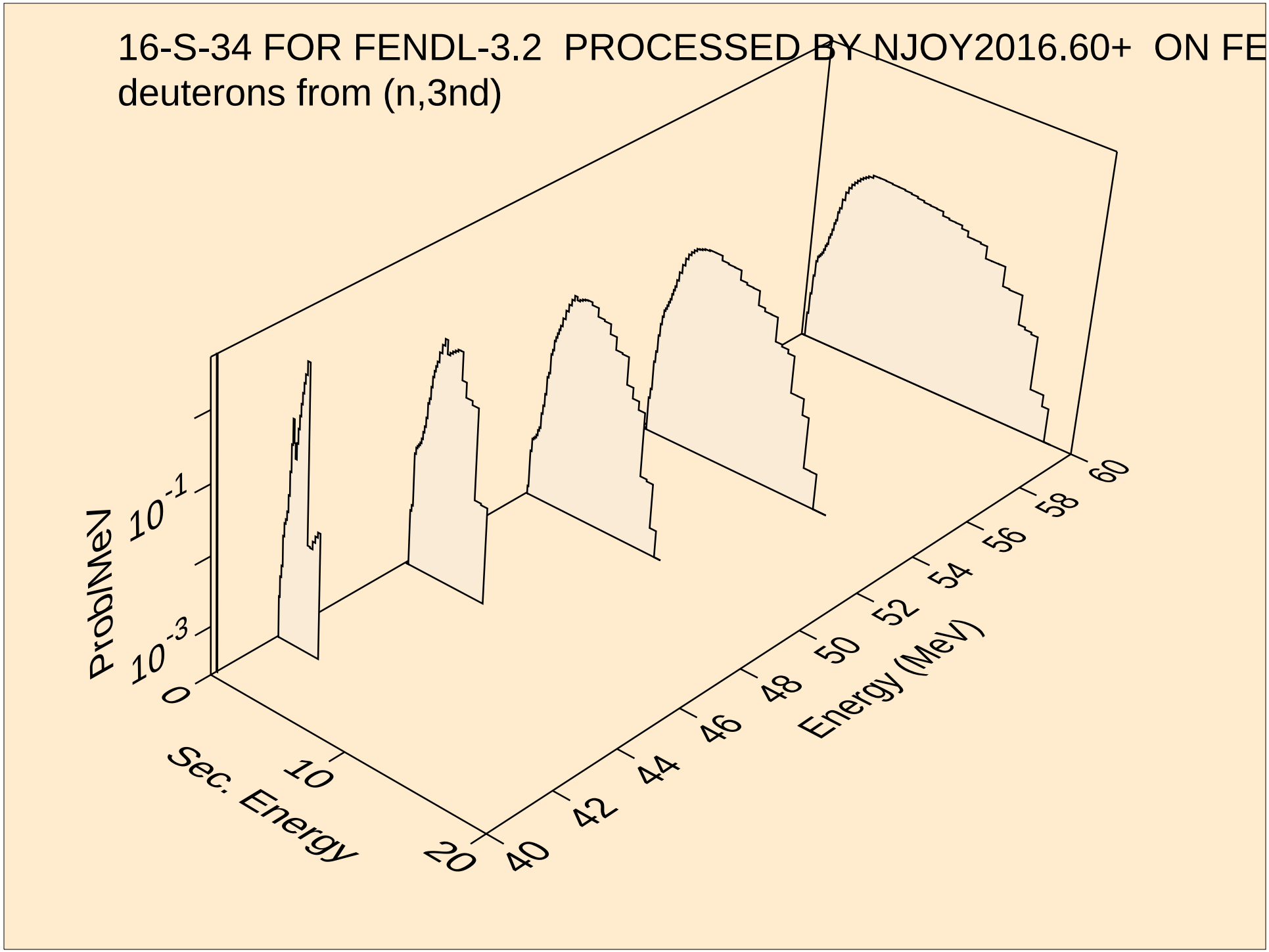

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,n*)d2a
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

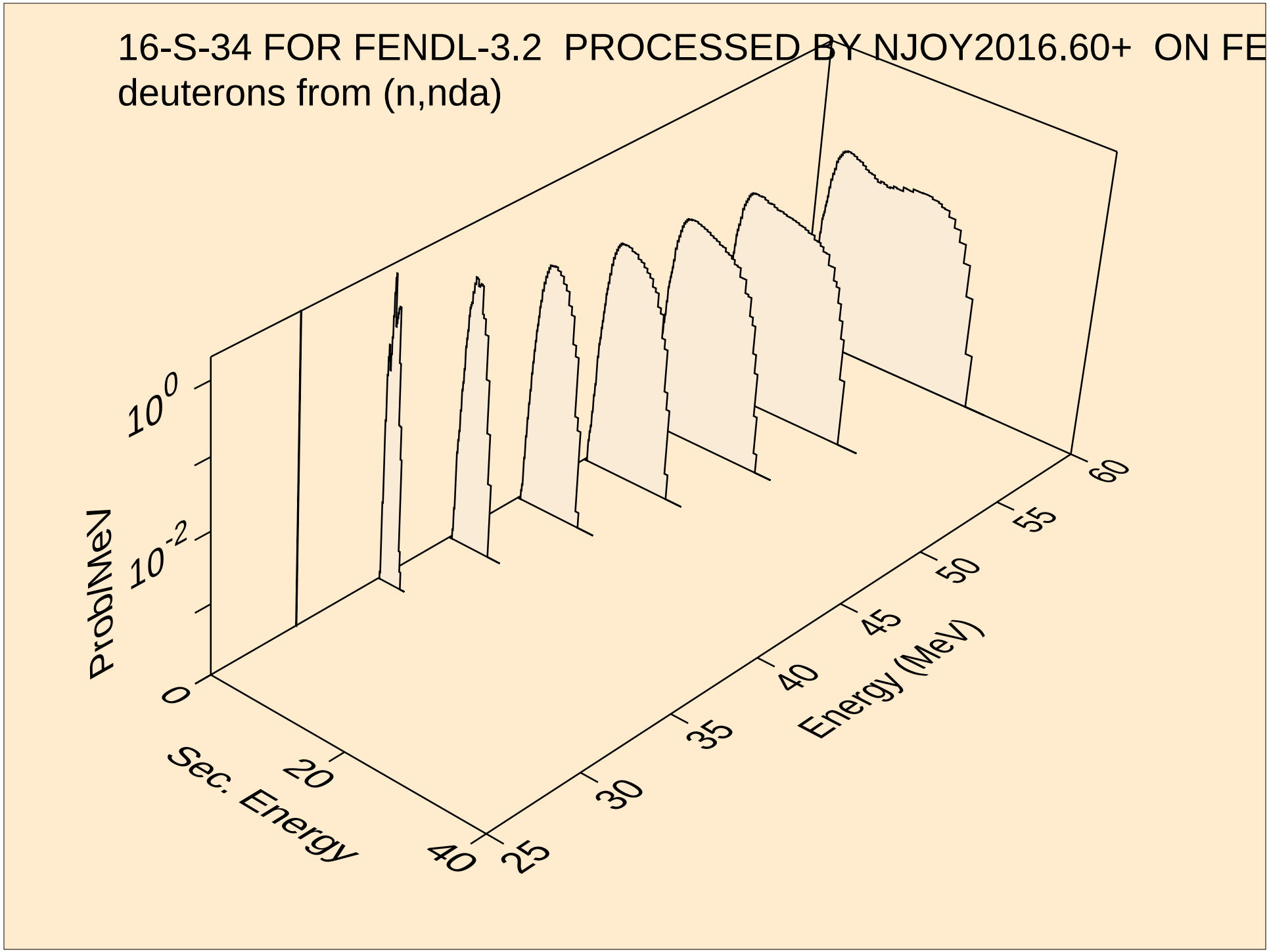

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,d)
Prob/MeV
10-1
10-3
0
20
40
60
Sec. Energy
0
10
20
30
40
50
60
Energy (MeV)

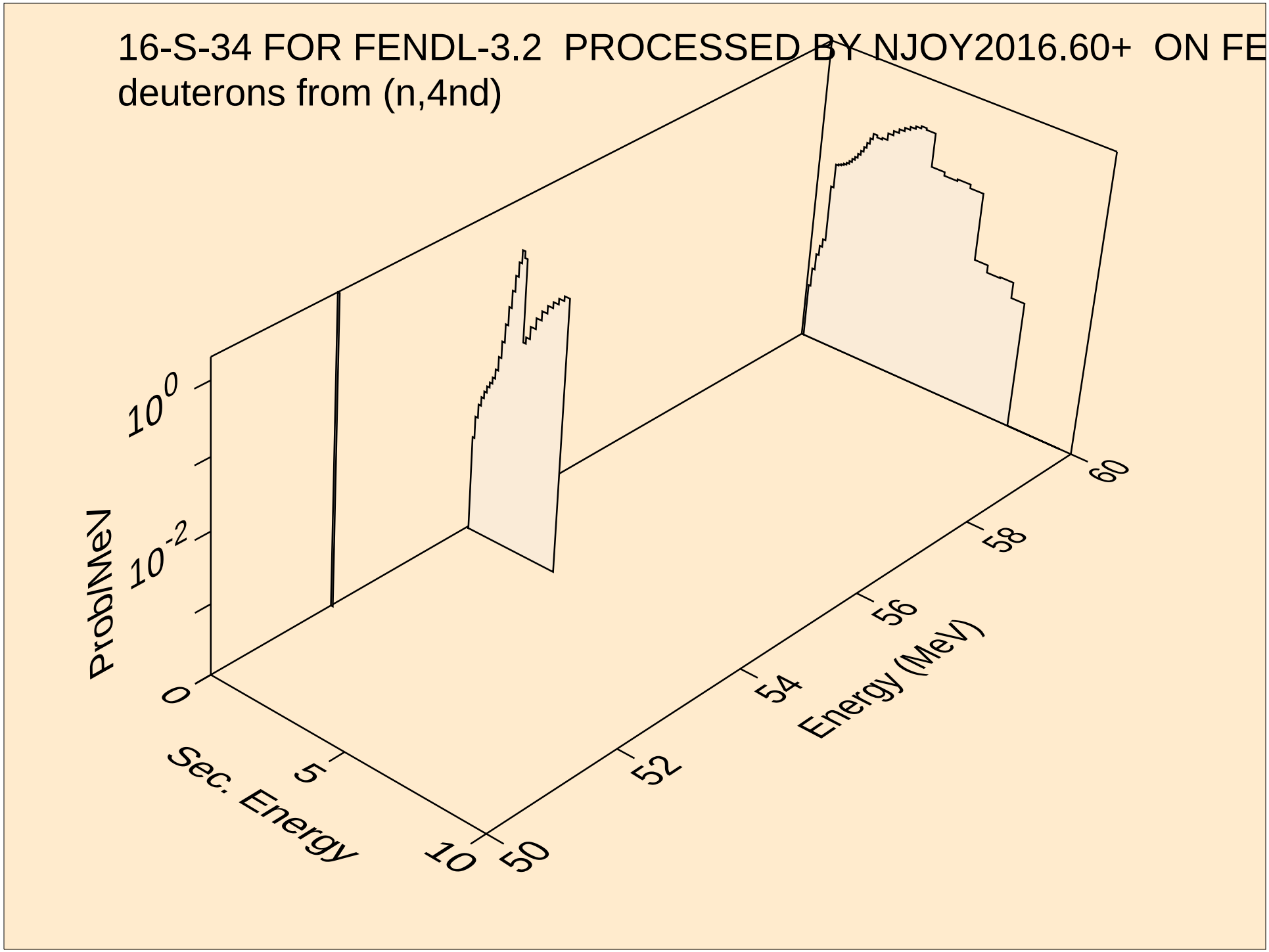

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,d2a)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
30
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

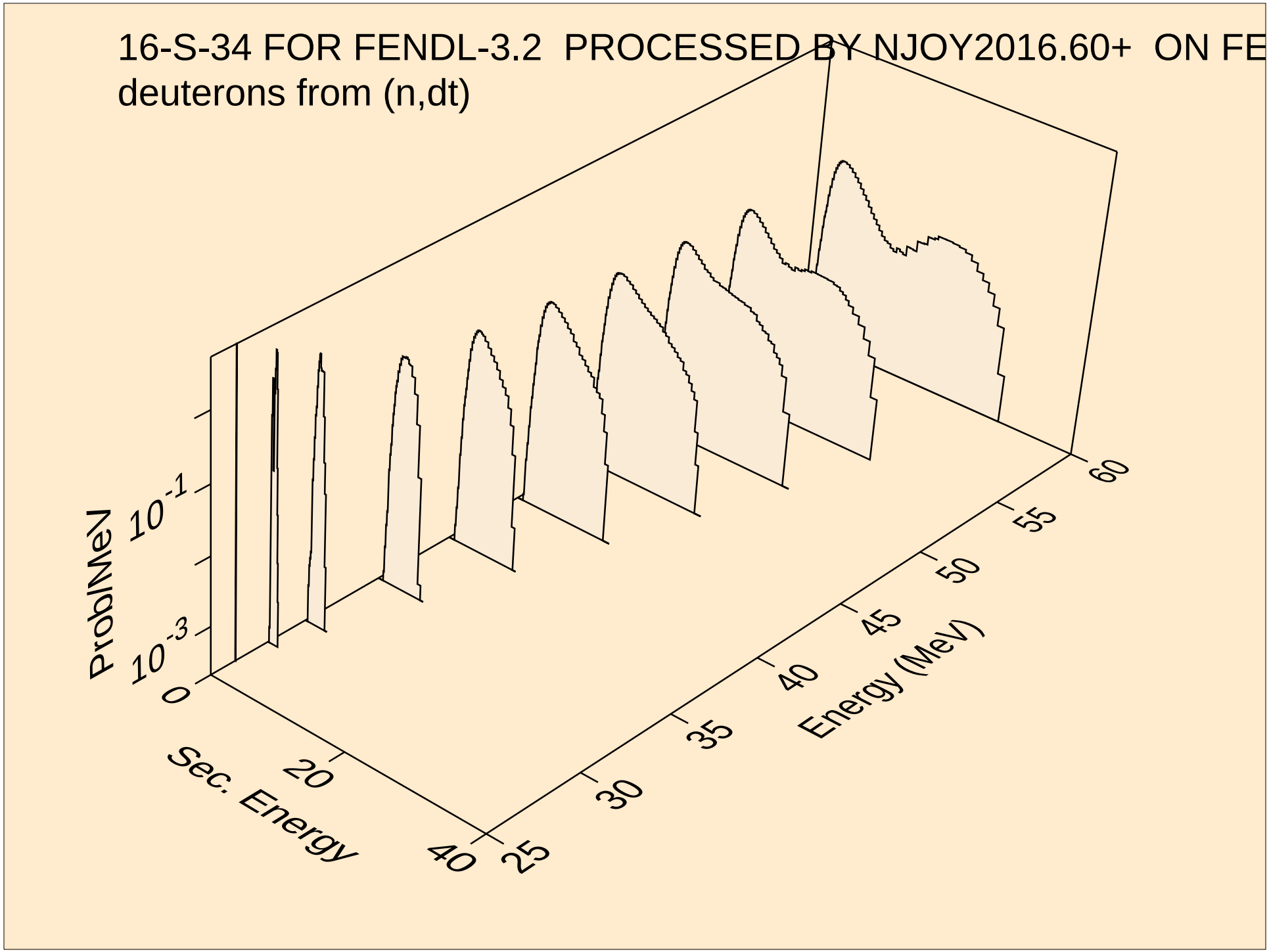

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,pd)
Prob/MeV
10^1
10^-1
10^-3
0
20
40
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

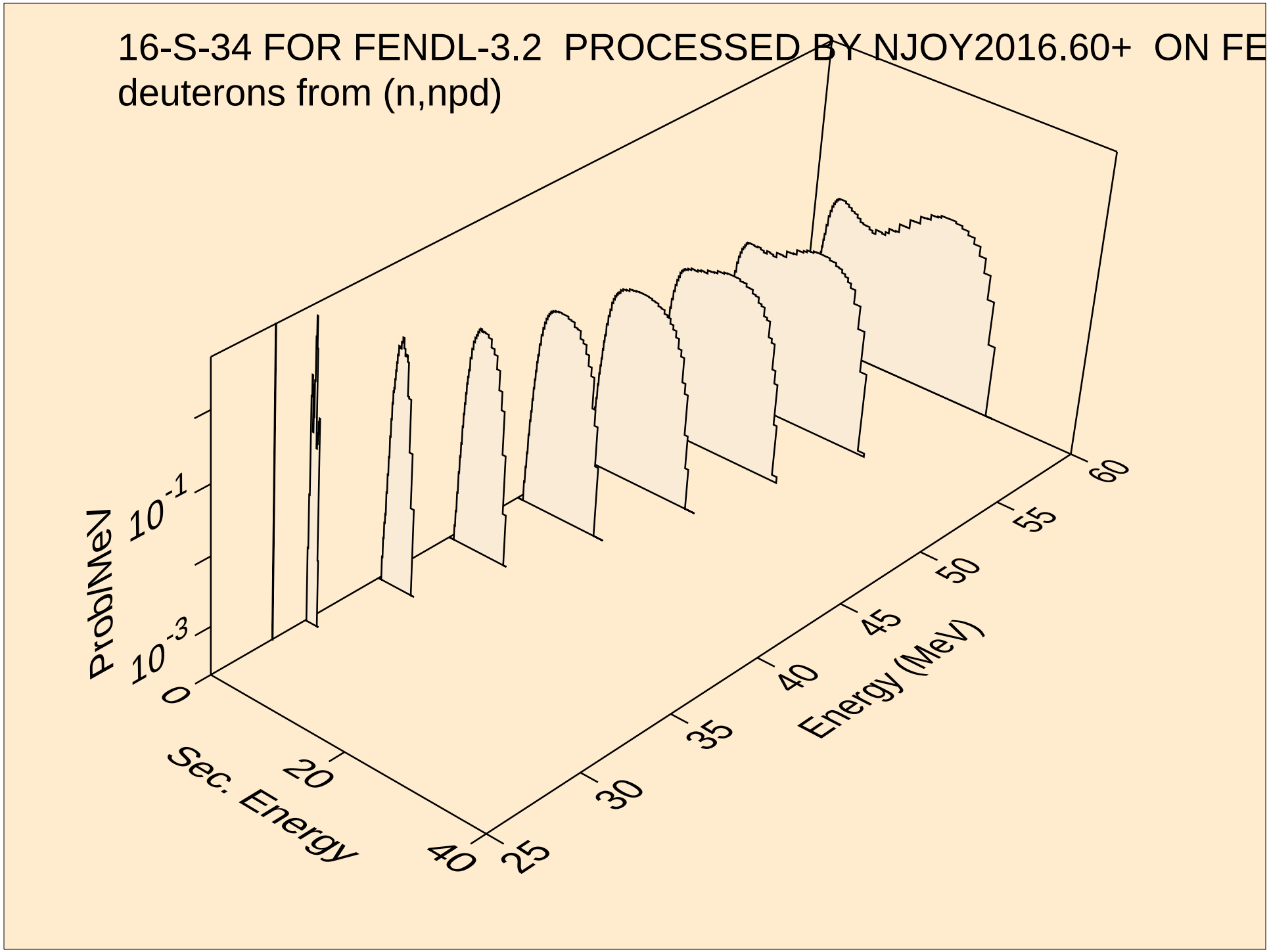

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,da)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

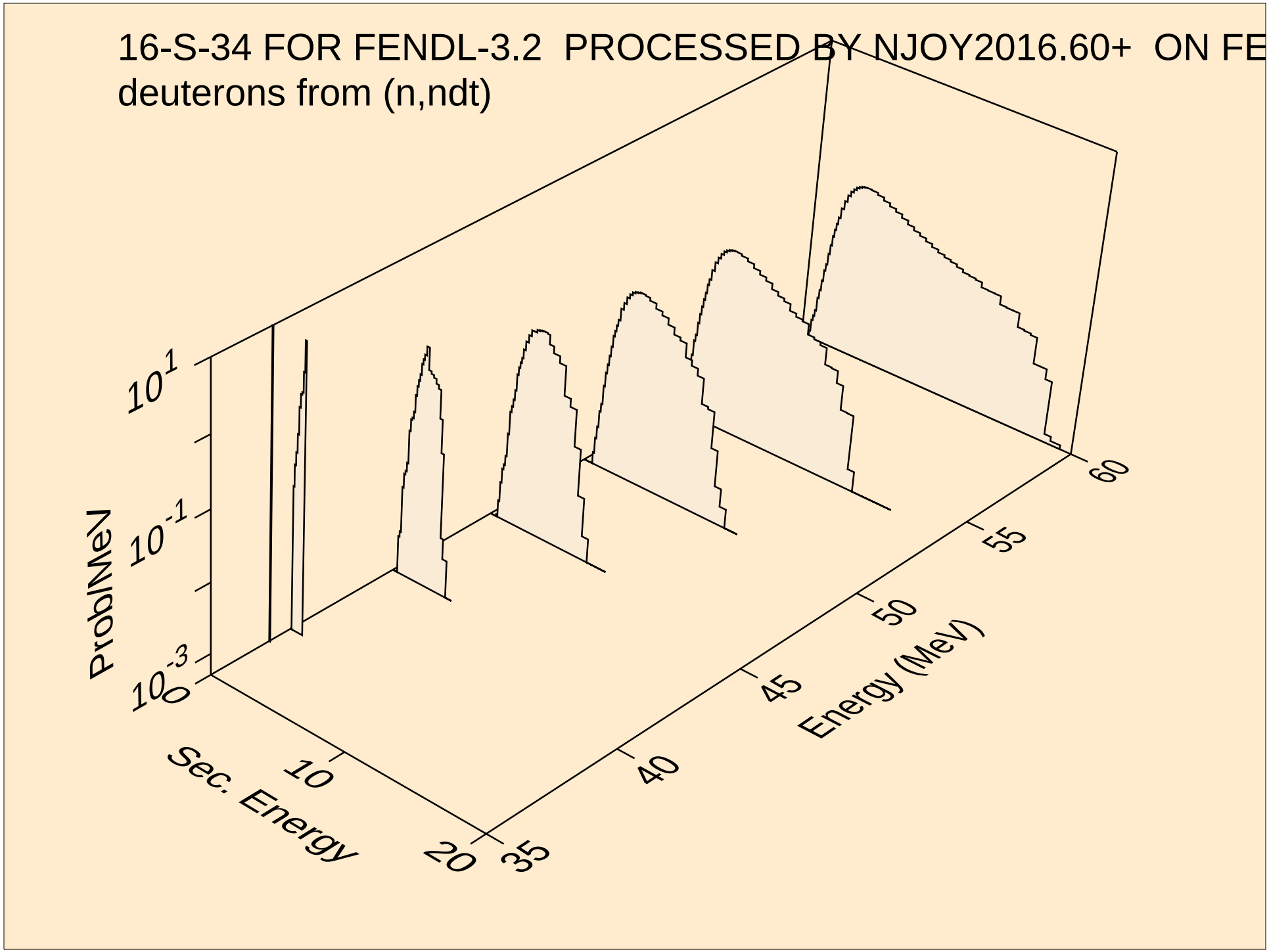

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,3nd)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

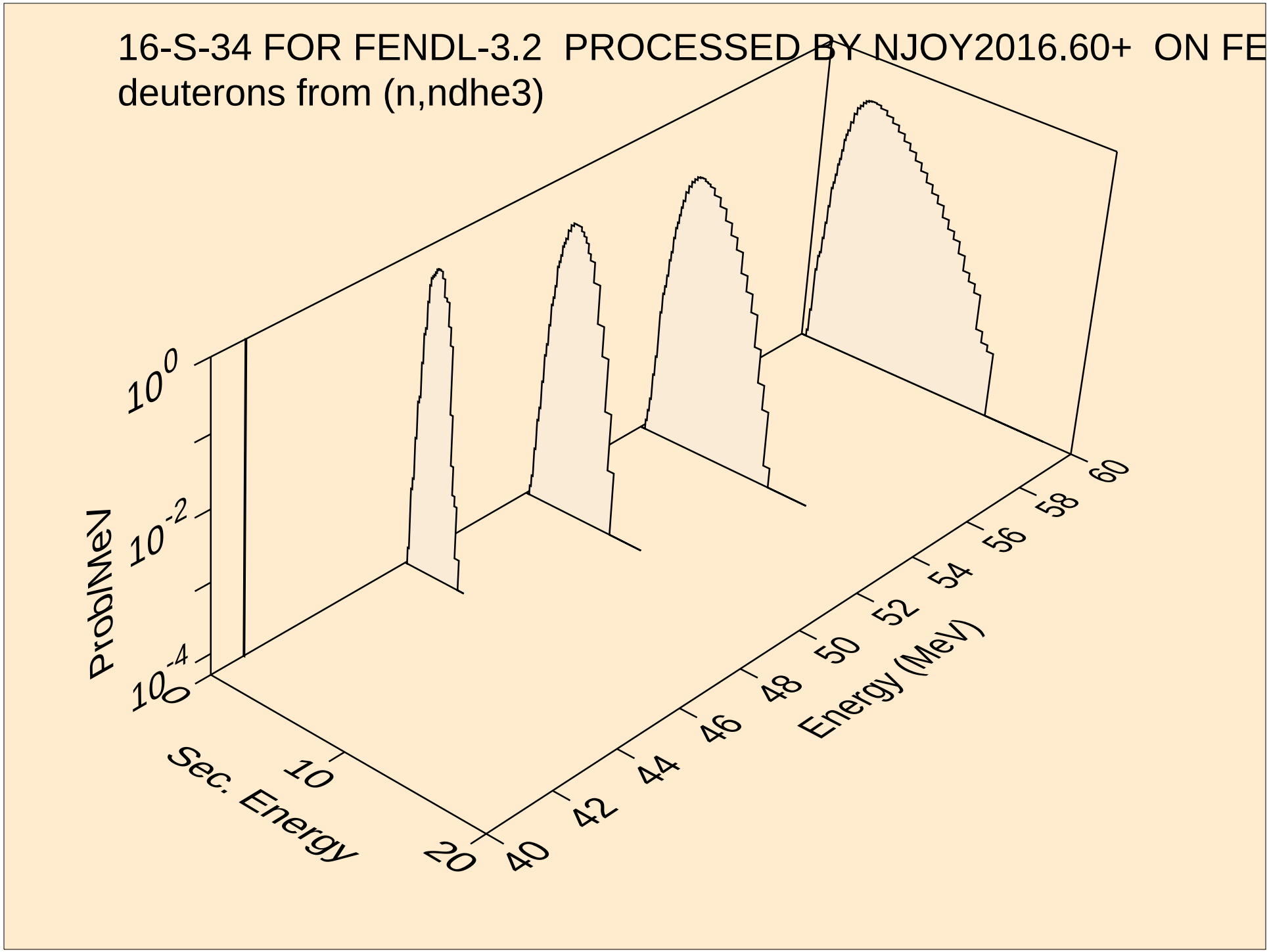

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,nda)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

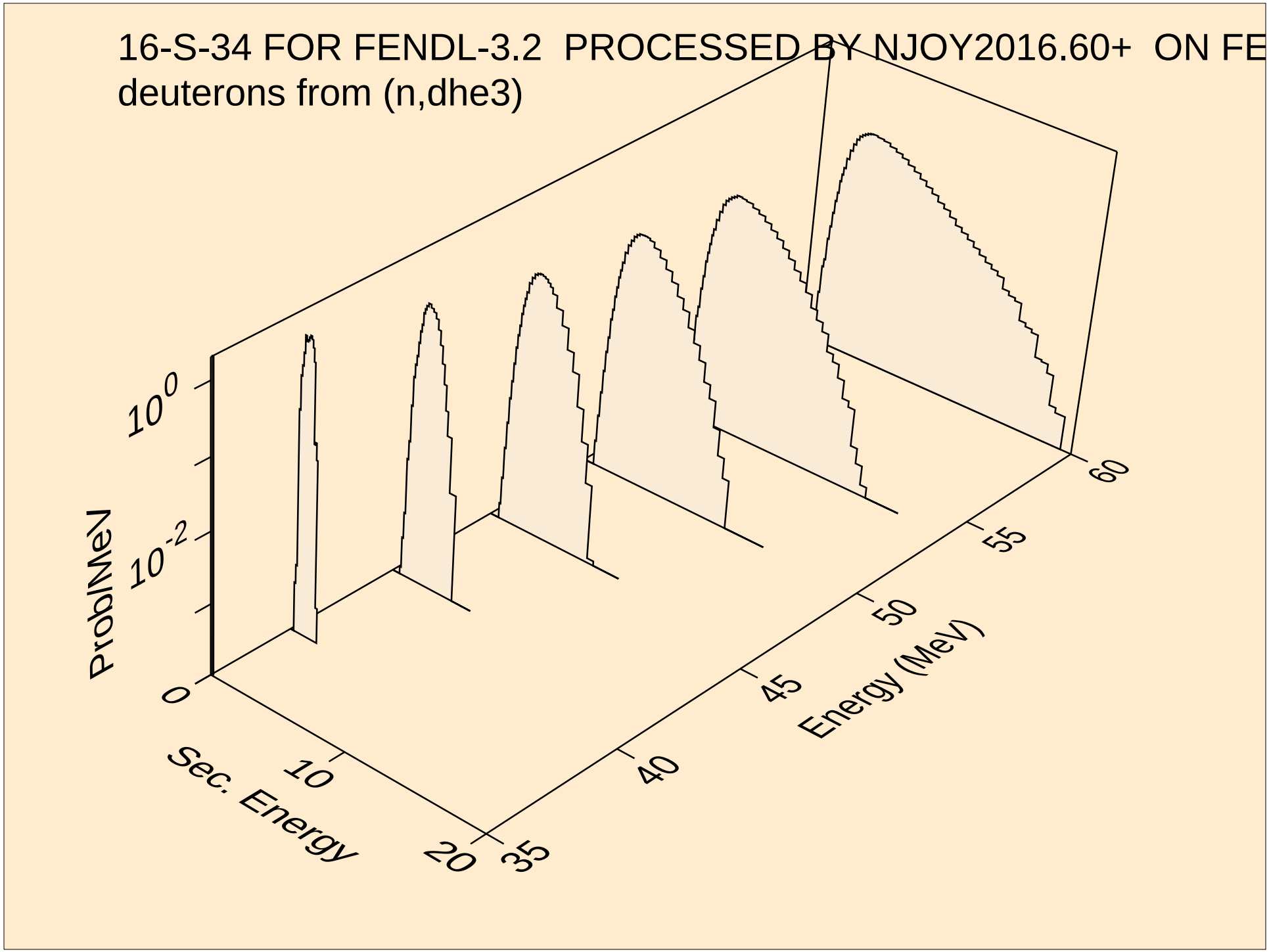

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,4nd)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
5
10
50
52
54
56
58
60
Energy (MeV)

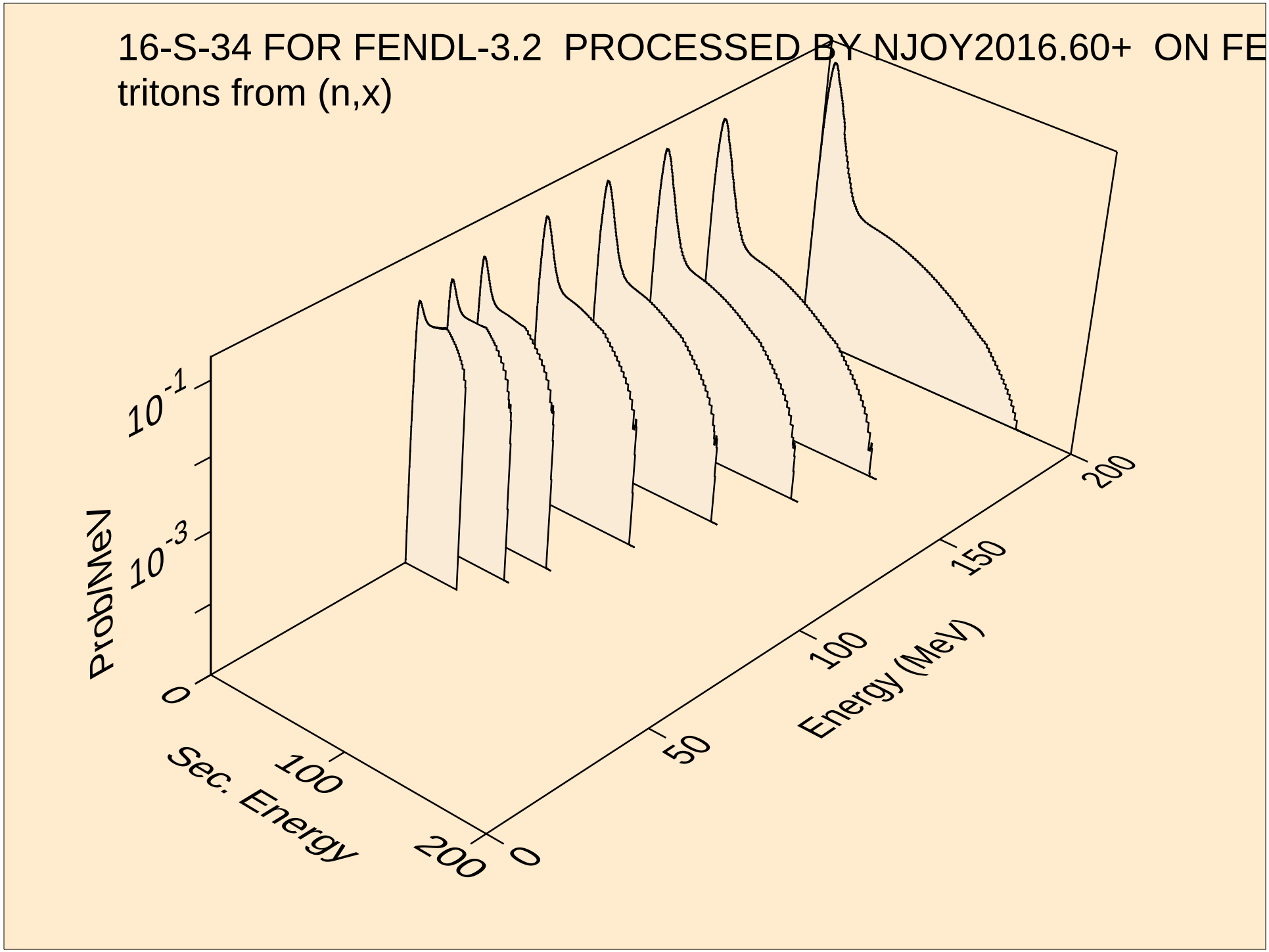

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,dt)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

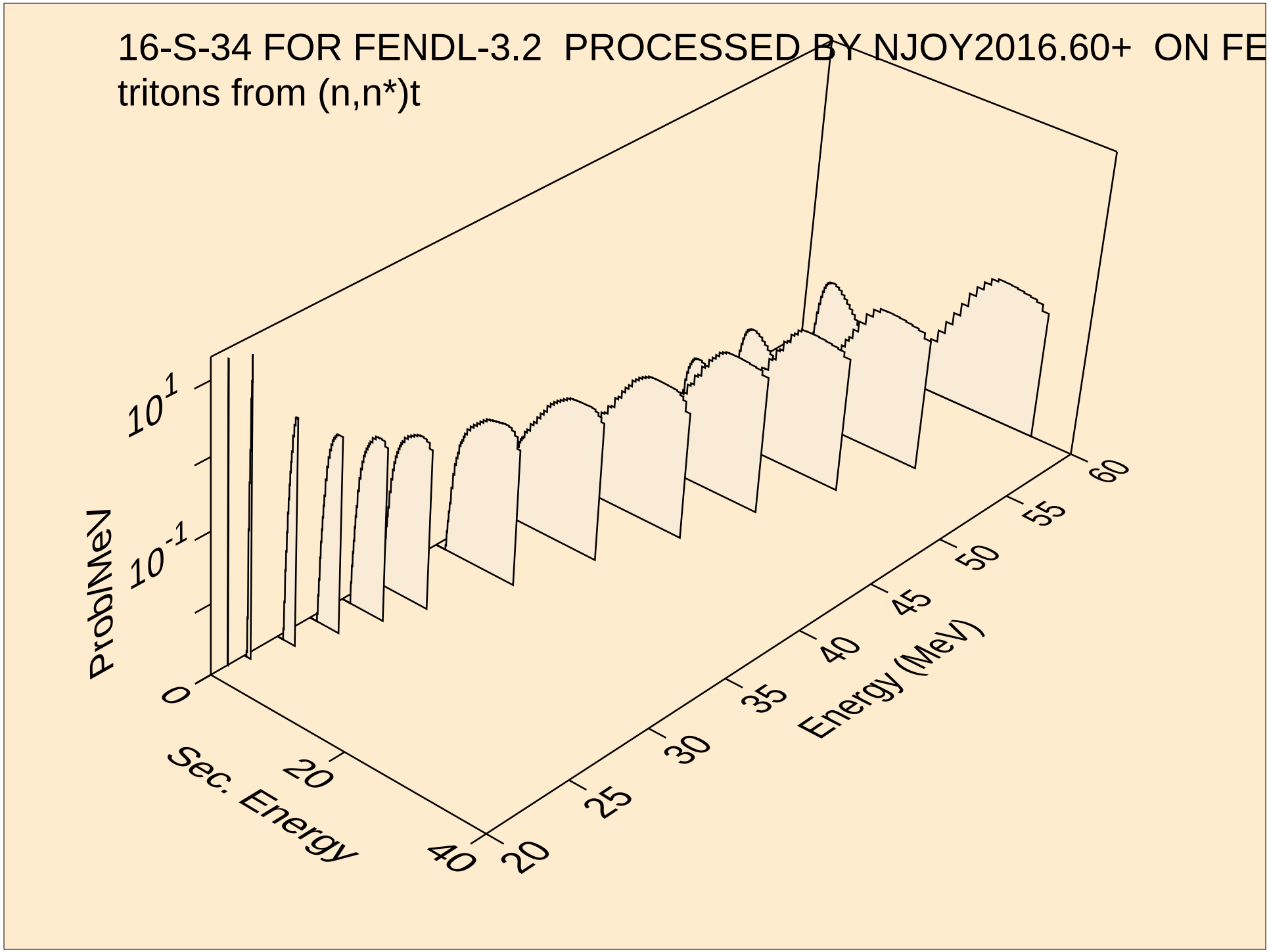

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,npd)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

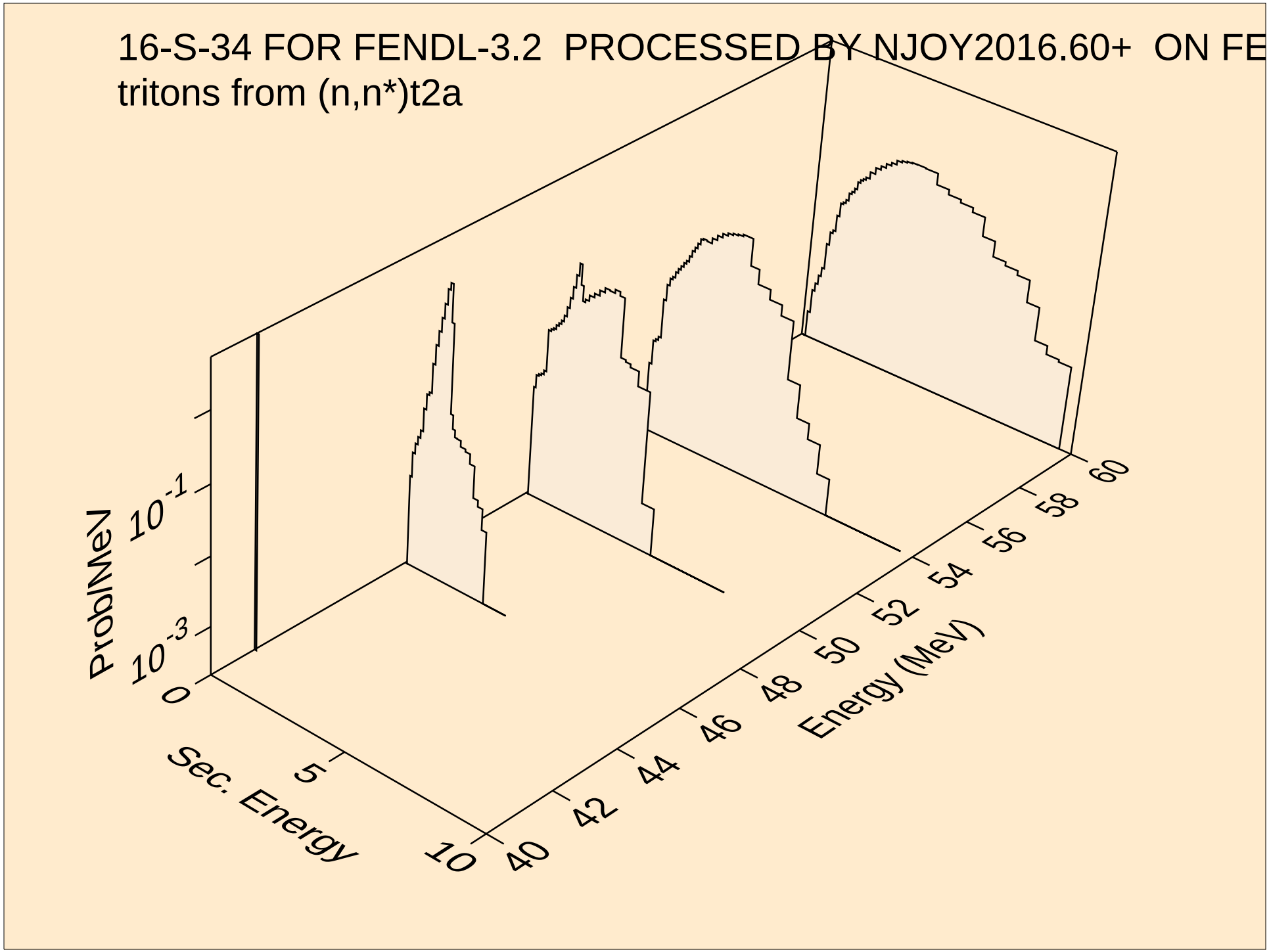

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,ndt)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
10
20
35
Sec. Energy
40
45
50
55
60
Energy (MeV)

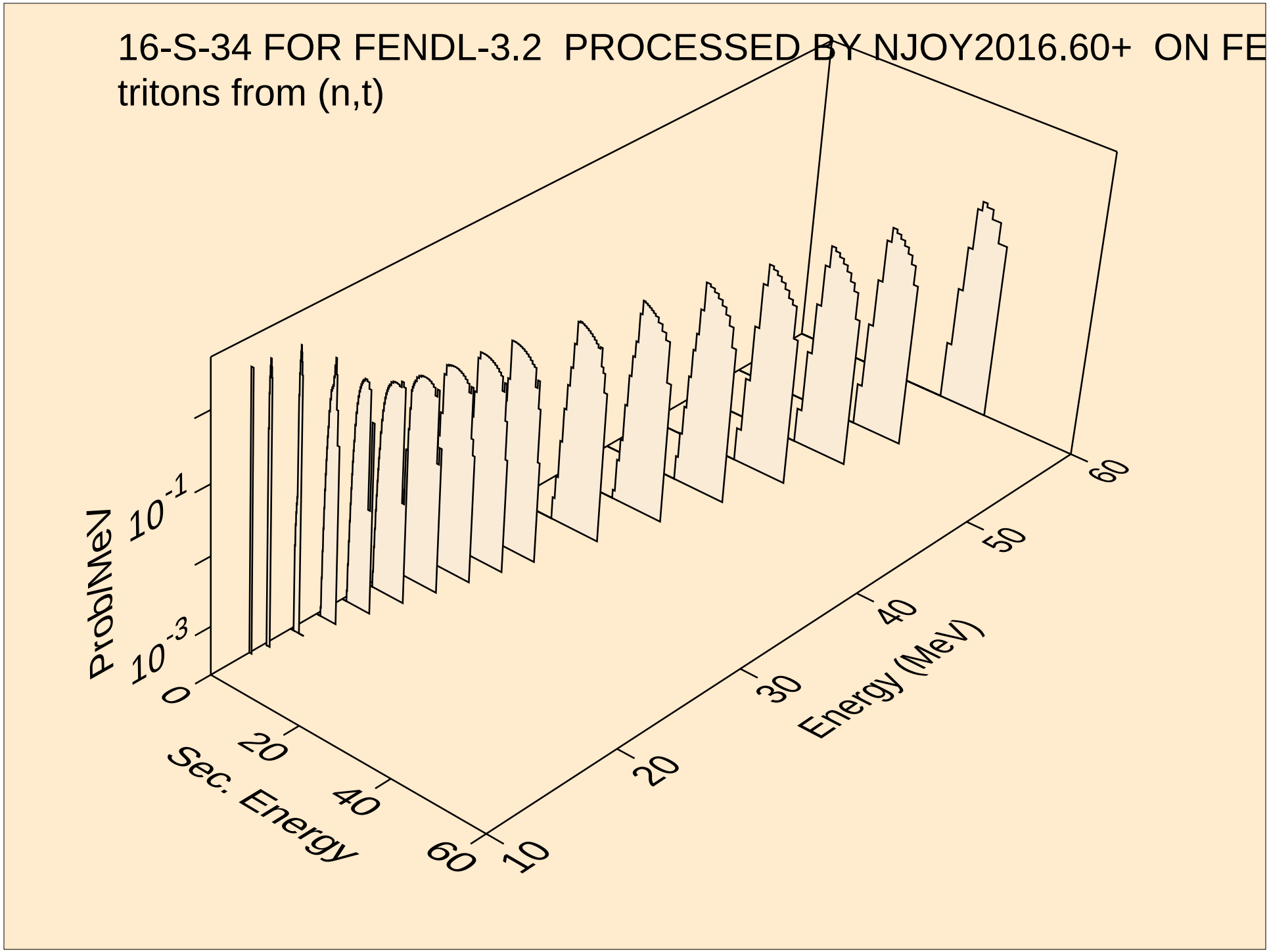

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,ndhe3)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
Sec. Energy
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

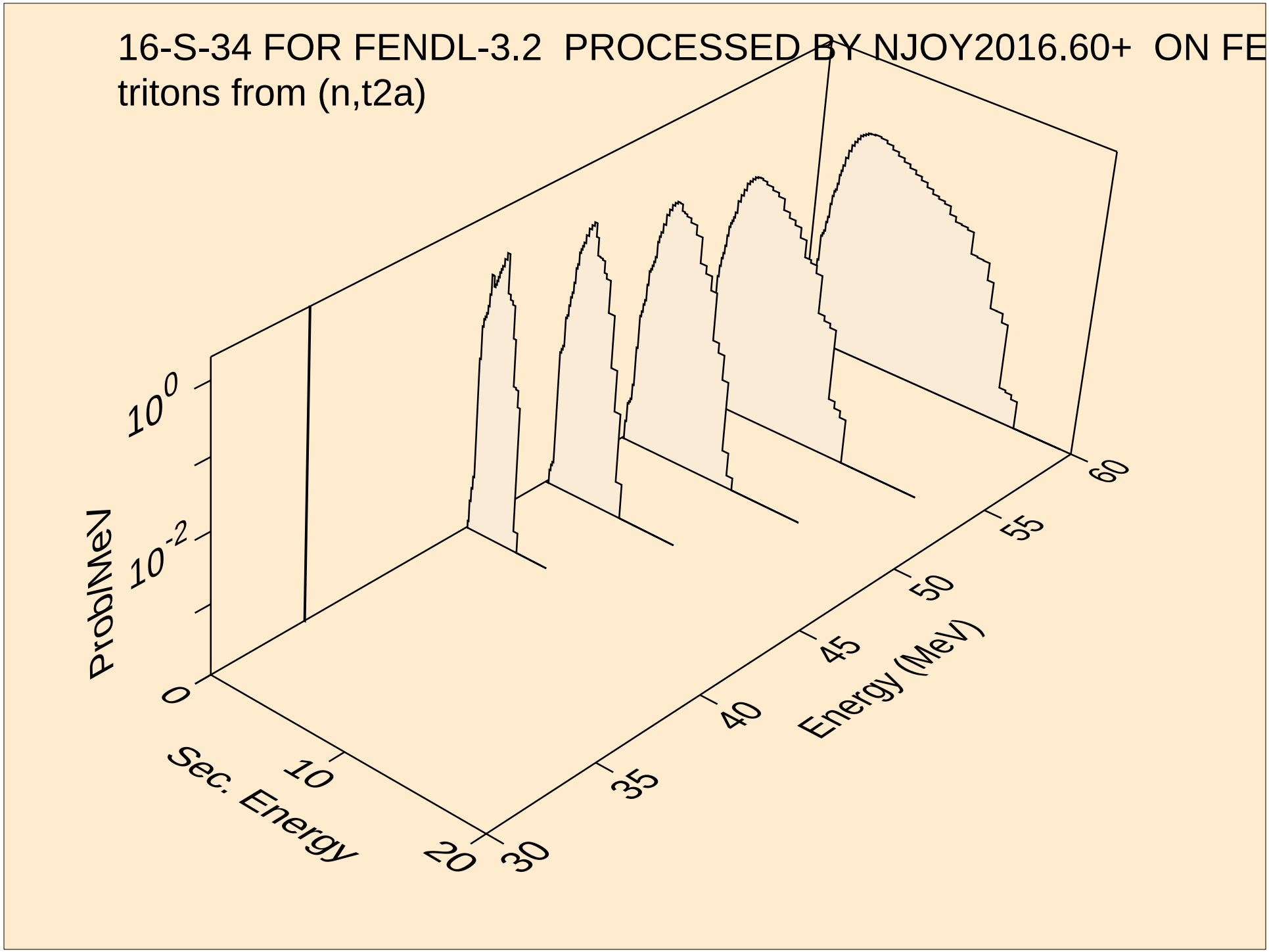

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
deuterons from (n,dhe3)
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
35
40
45
Energy (MeV)
50
55
60

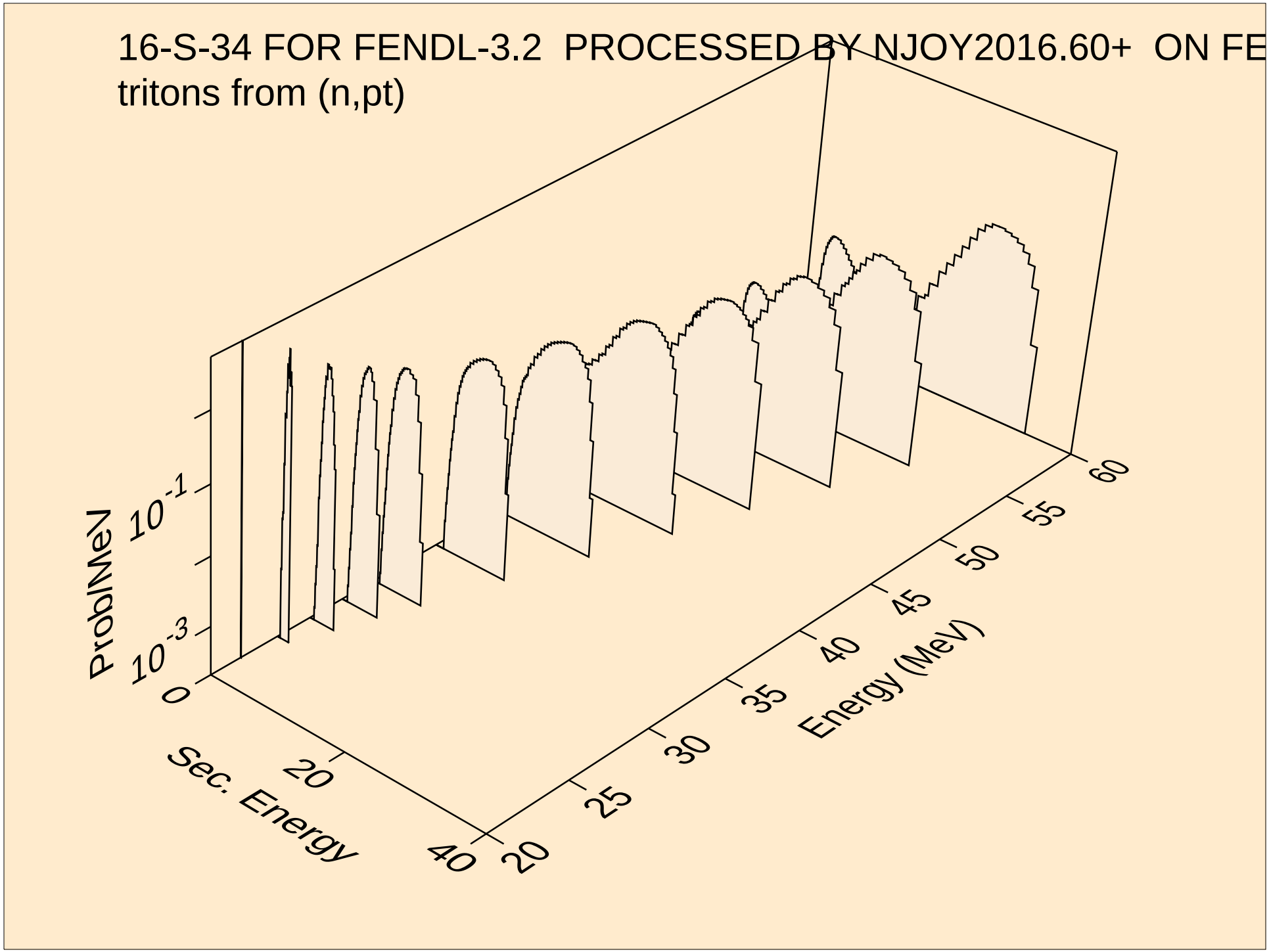

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

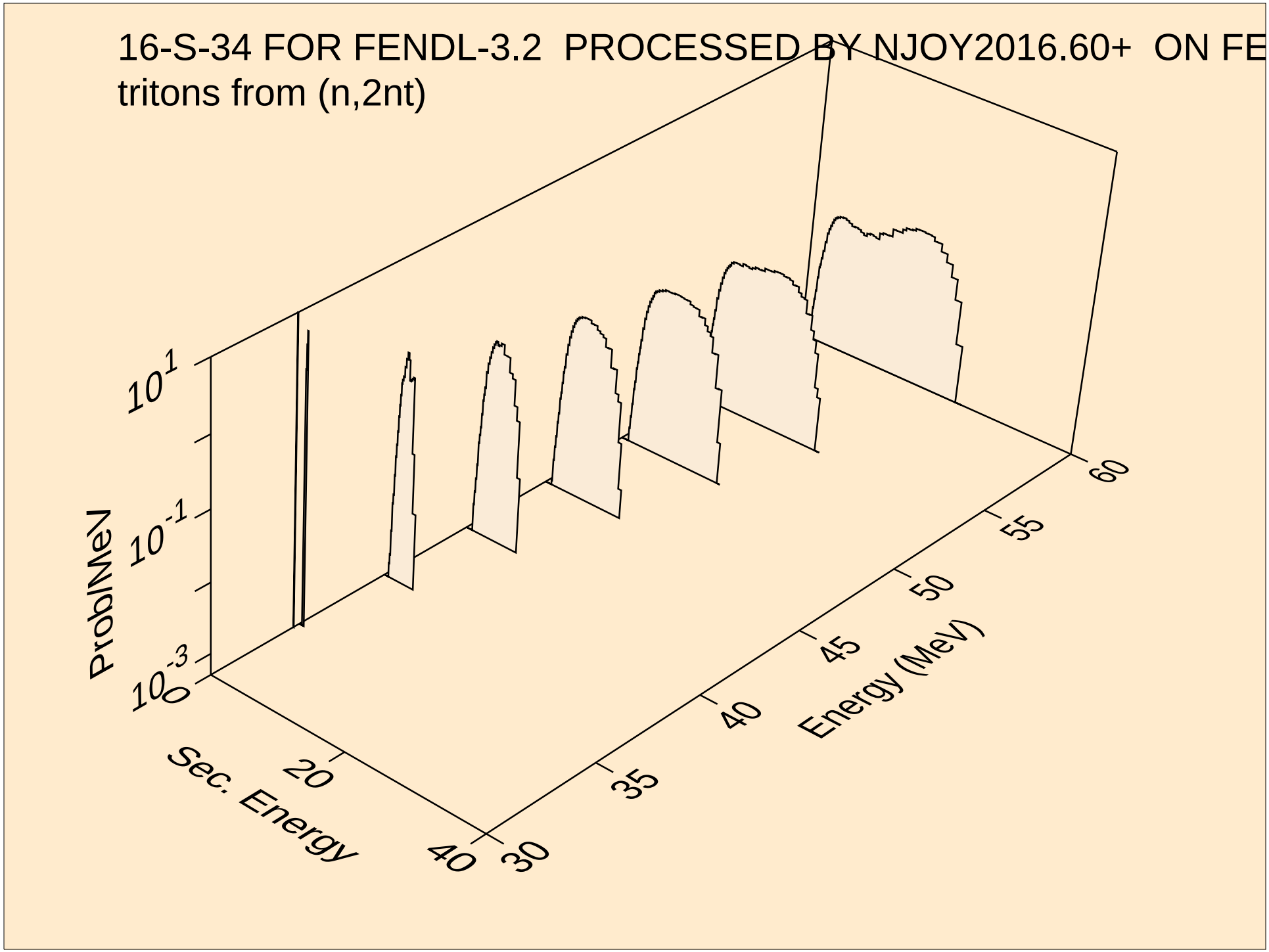

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,n*)t
Prob/MeV
10^{1}
10^{-1}
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

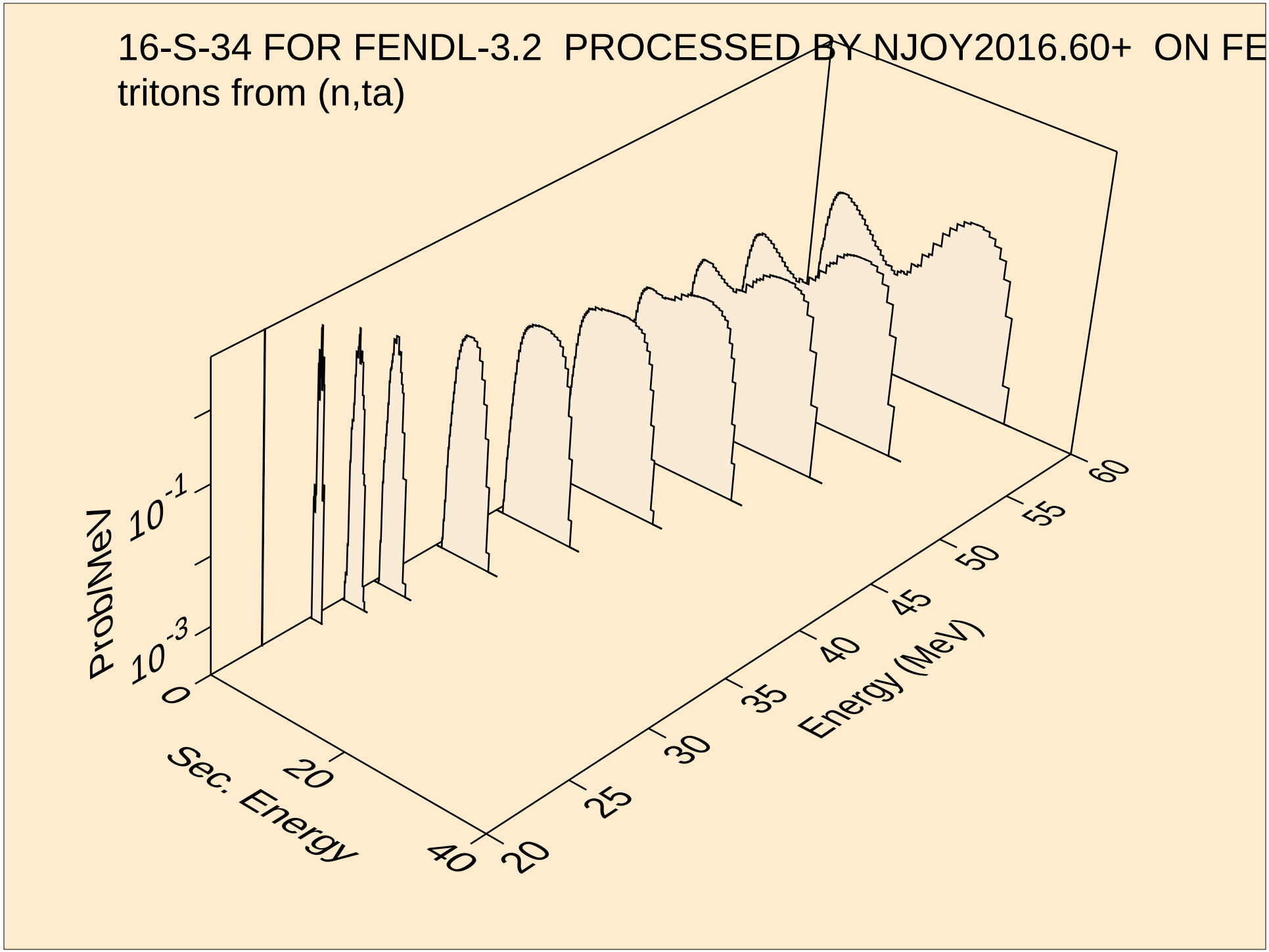

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,n*)t2a
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

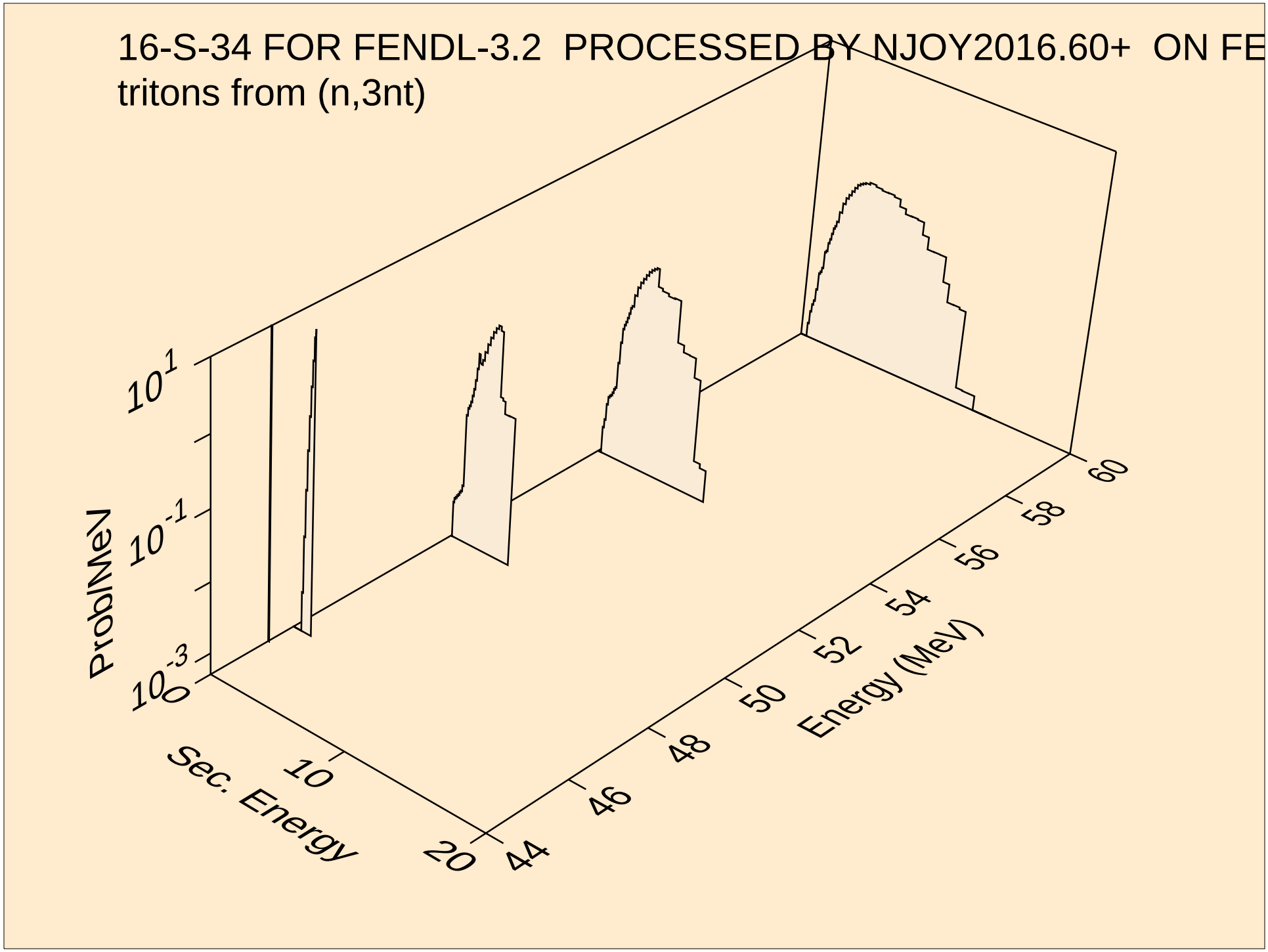

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,t)
Prob/MeV
10-1
10-3
0
20
40
60
Sec. Energy
10
20
30
40
50
60
Energy (MeV)

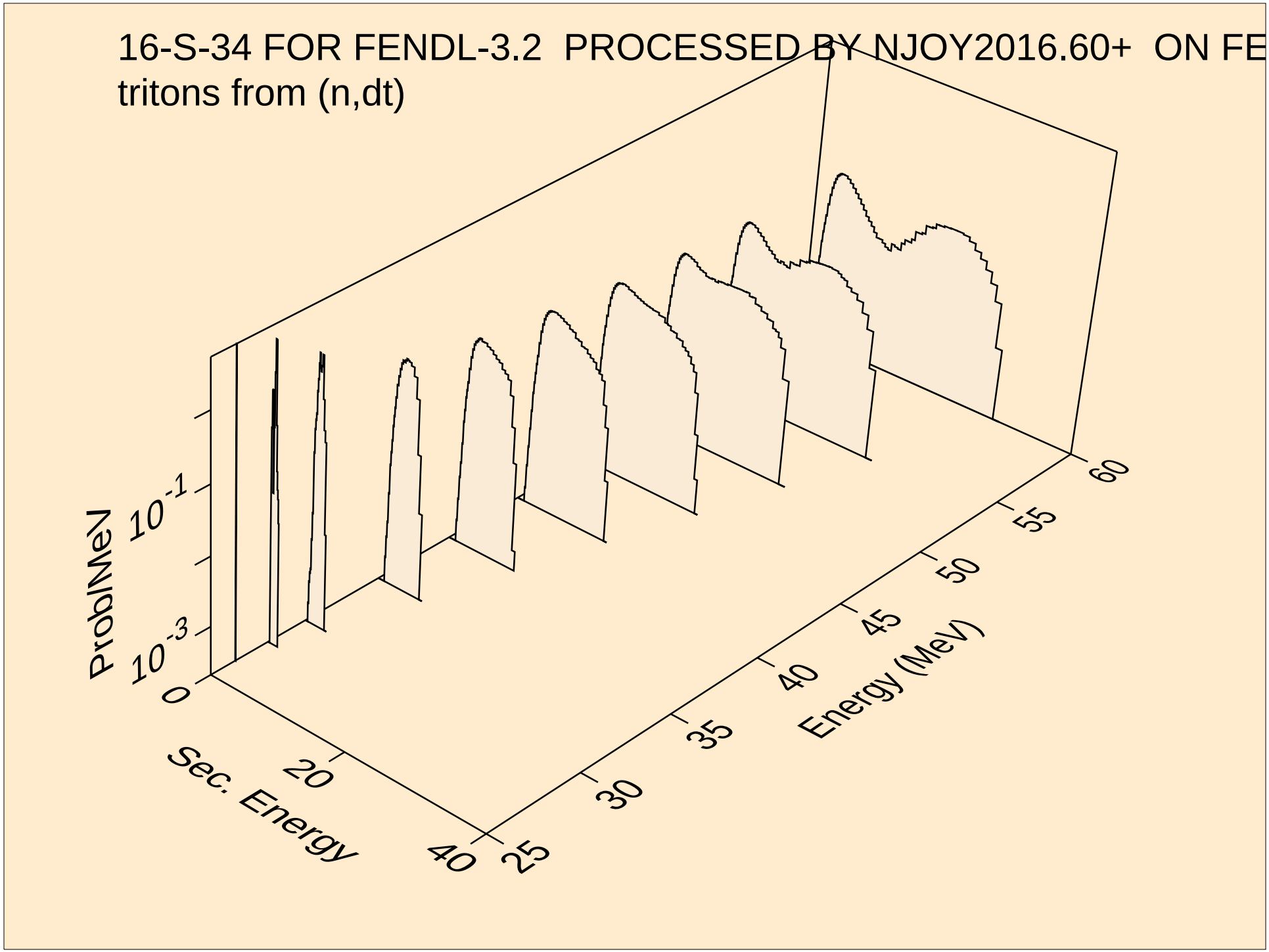

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,t2a)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
30
35
40
Energy (MeV)
45
50
55
60

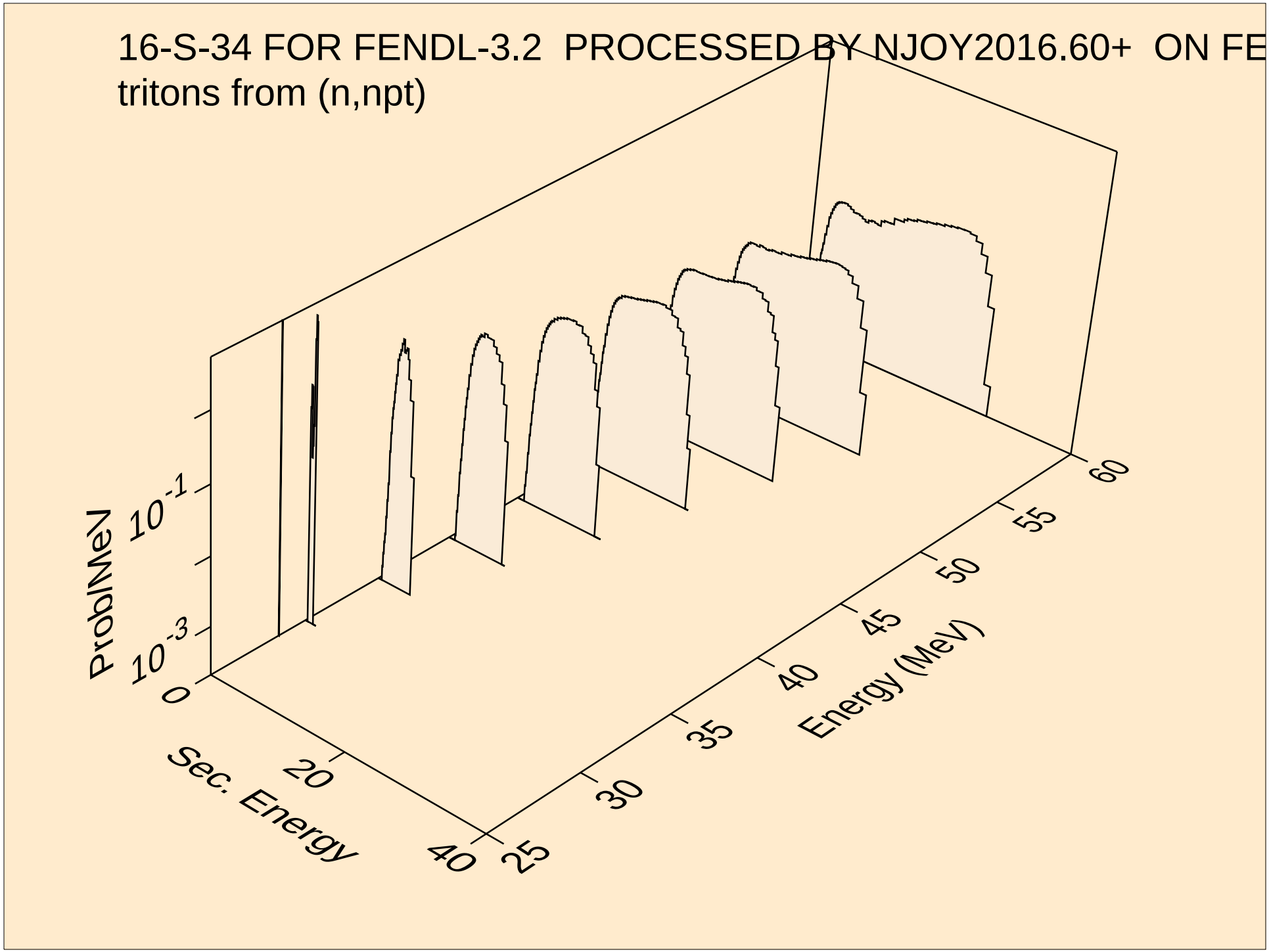

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,pt)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

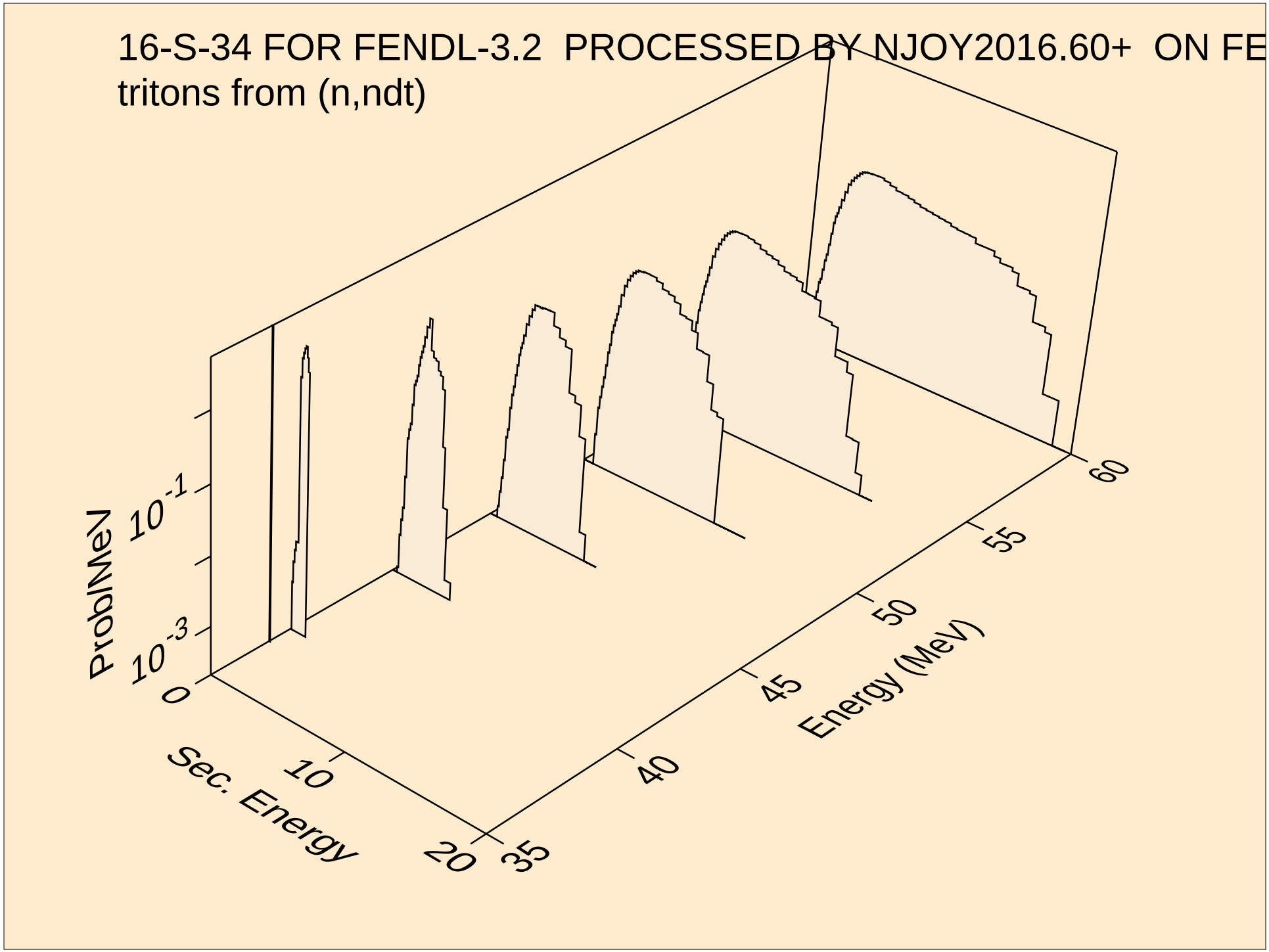

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,2nt)
Prob/MeV
10^1
10^-1
10^-3
0
20
40
Sec. Energy
30
35
40
45
50
55
60
Energy (MeV)

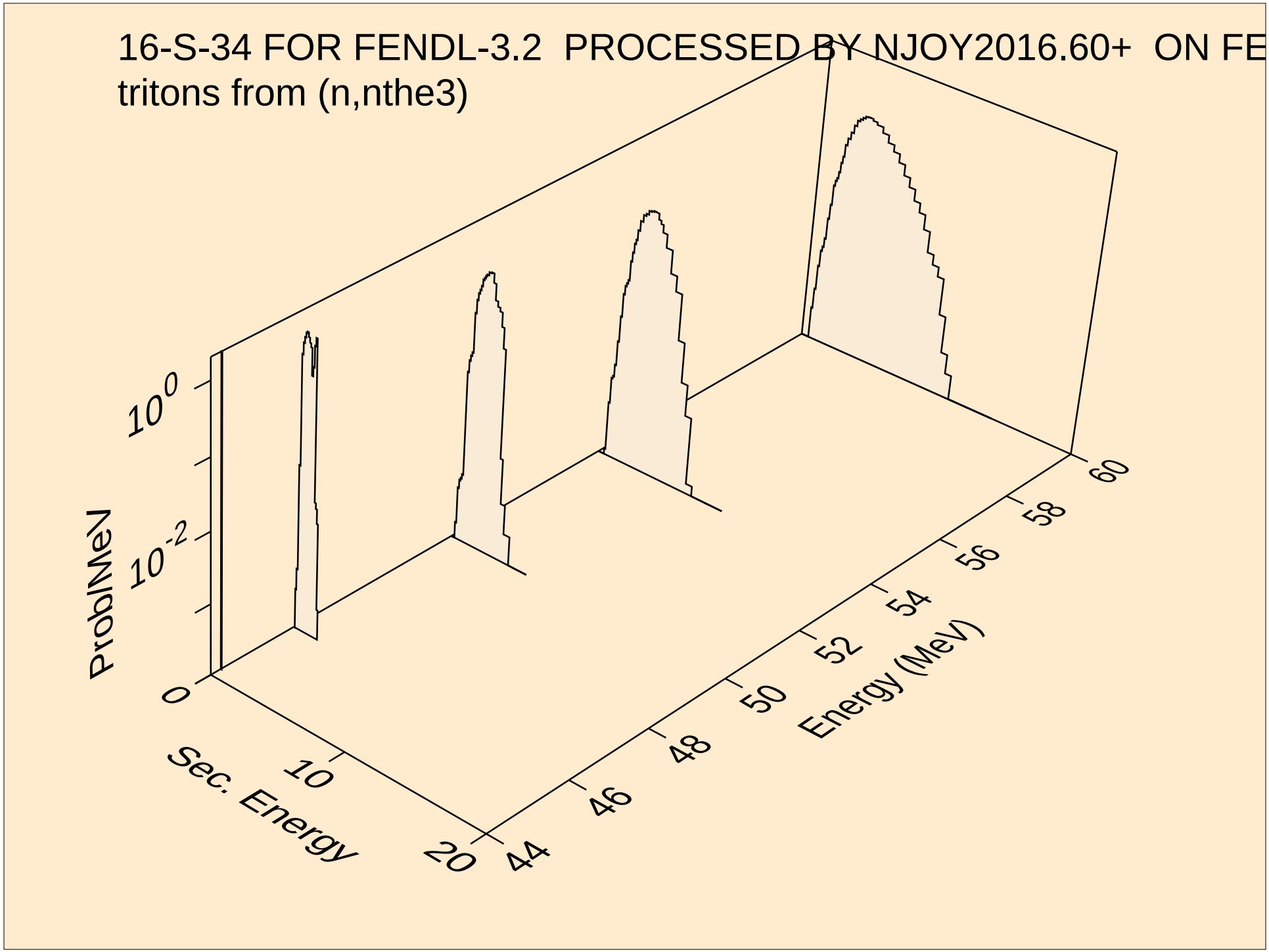

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,ta)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

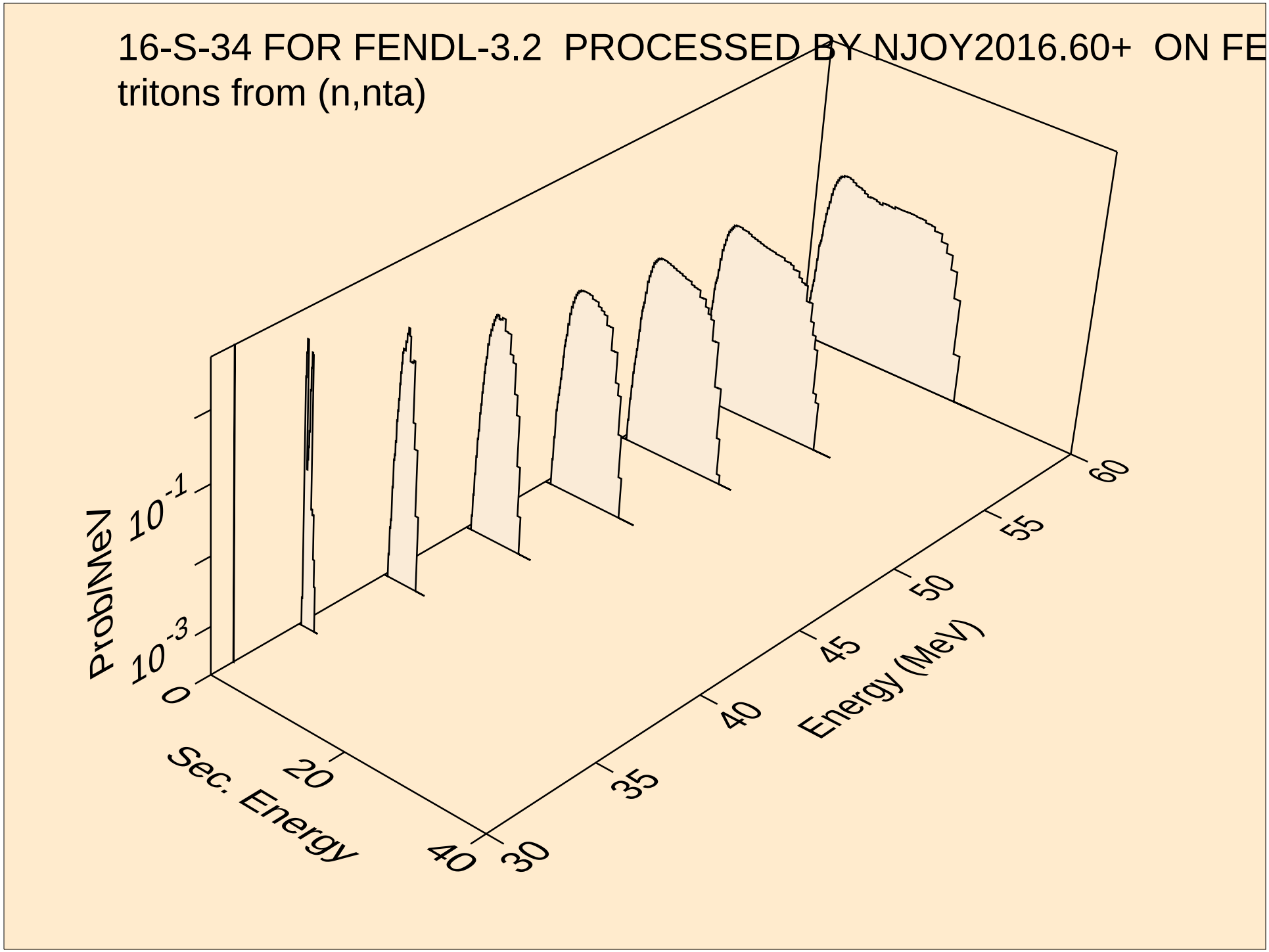

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,3nt)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
10
20
Sec. Energy
44
46
48
50
52
54
56
58
60
Energy (MeV)

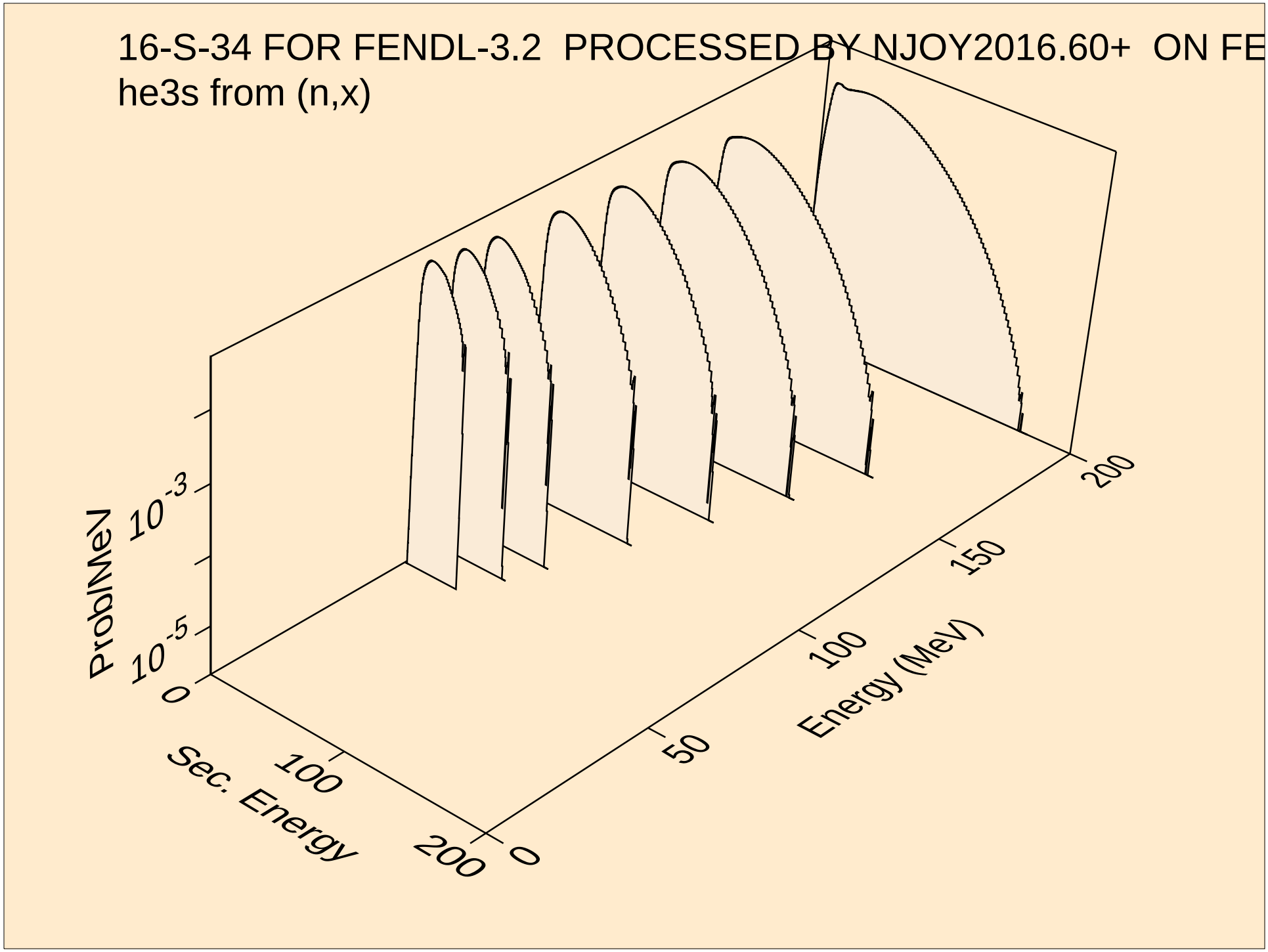

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,dt)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

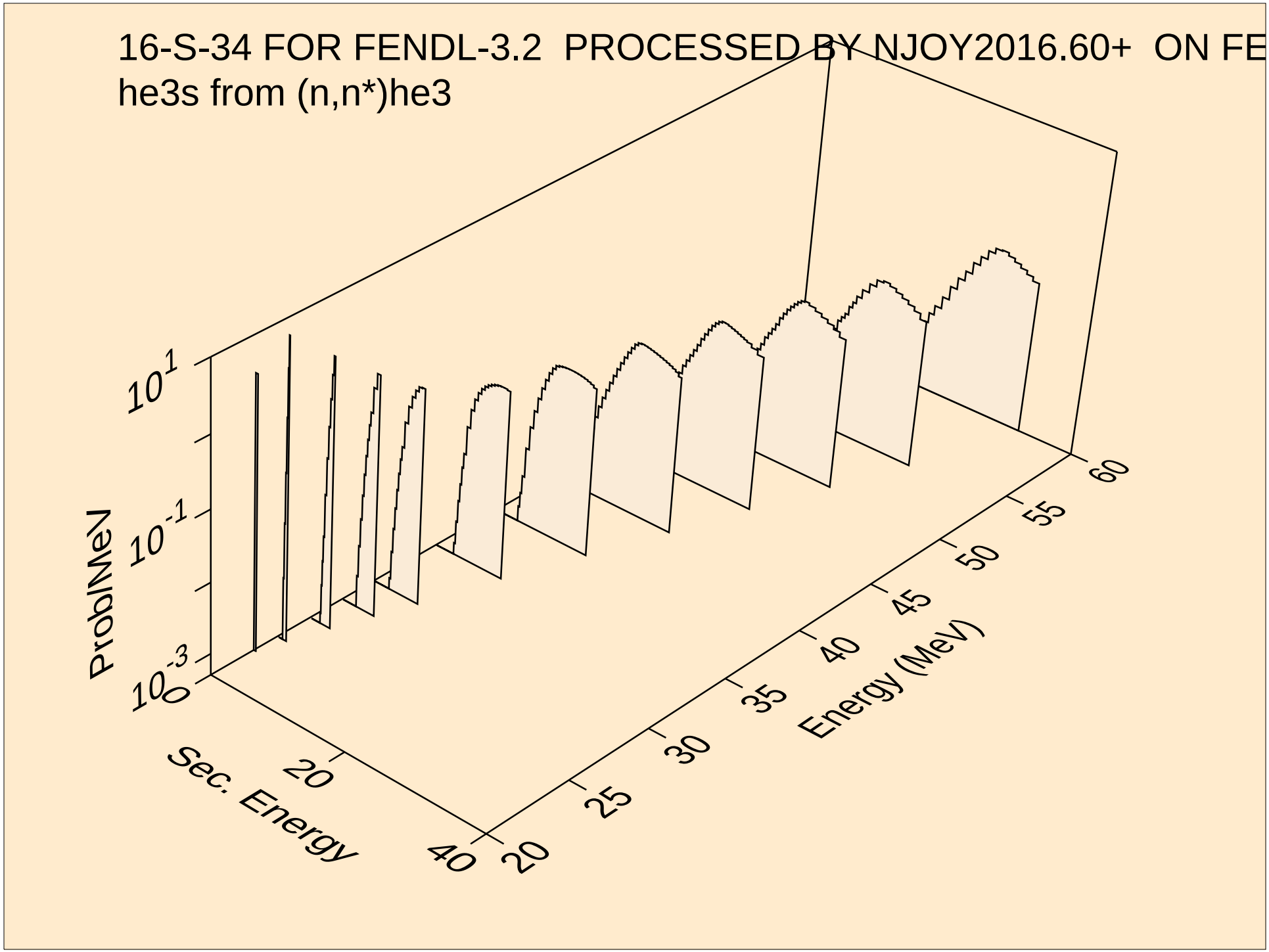

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,npt)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

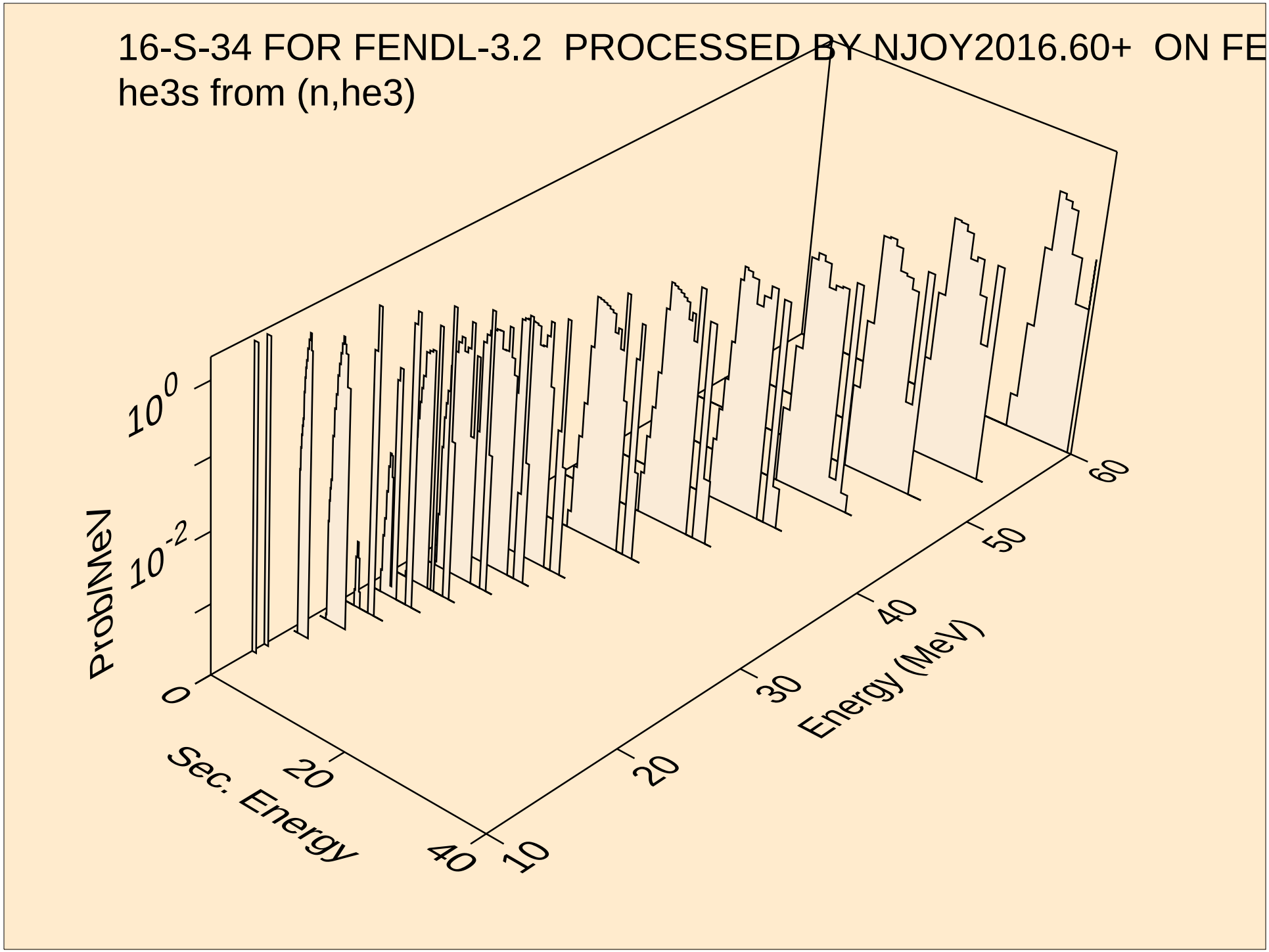

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,ndt)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
35
40
45
Energy (MeV)
50
55
60

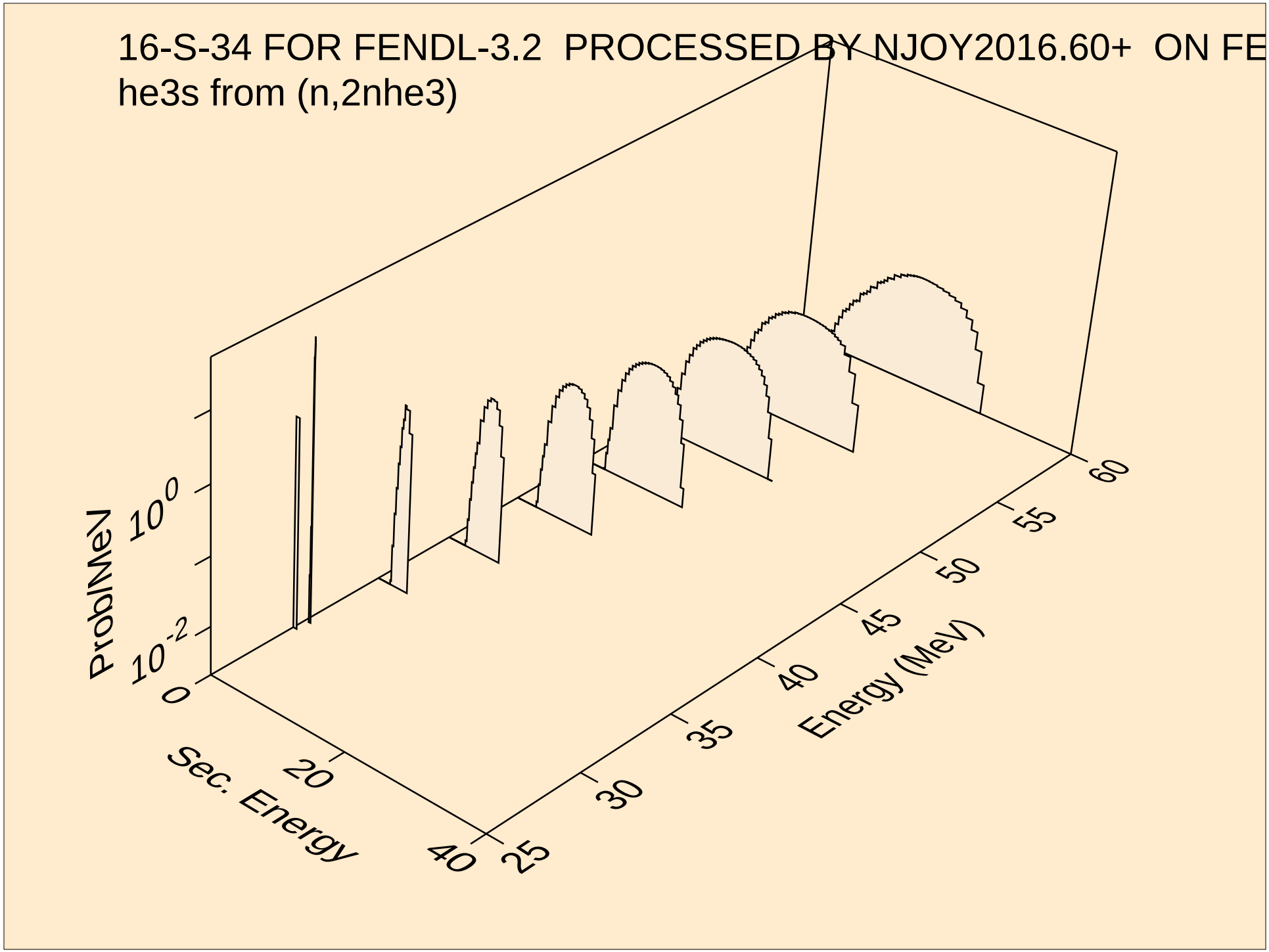

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,nthe3)
Prob/MeV
10^{0}
10^{-2}
0
10
20
Sec. Energy
44
46
48
50
52
54
56
58
60
Energy (MeV)

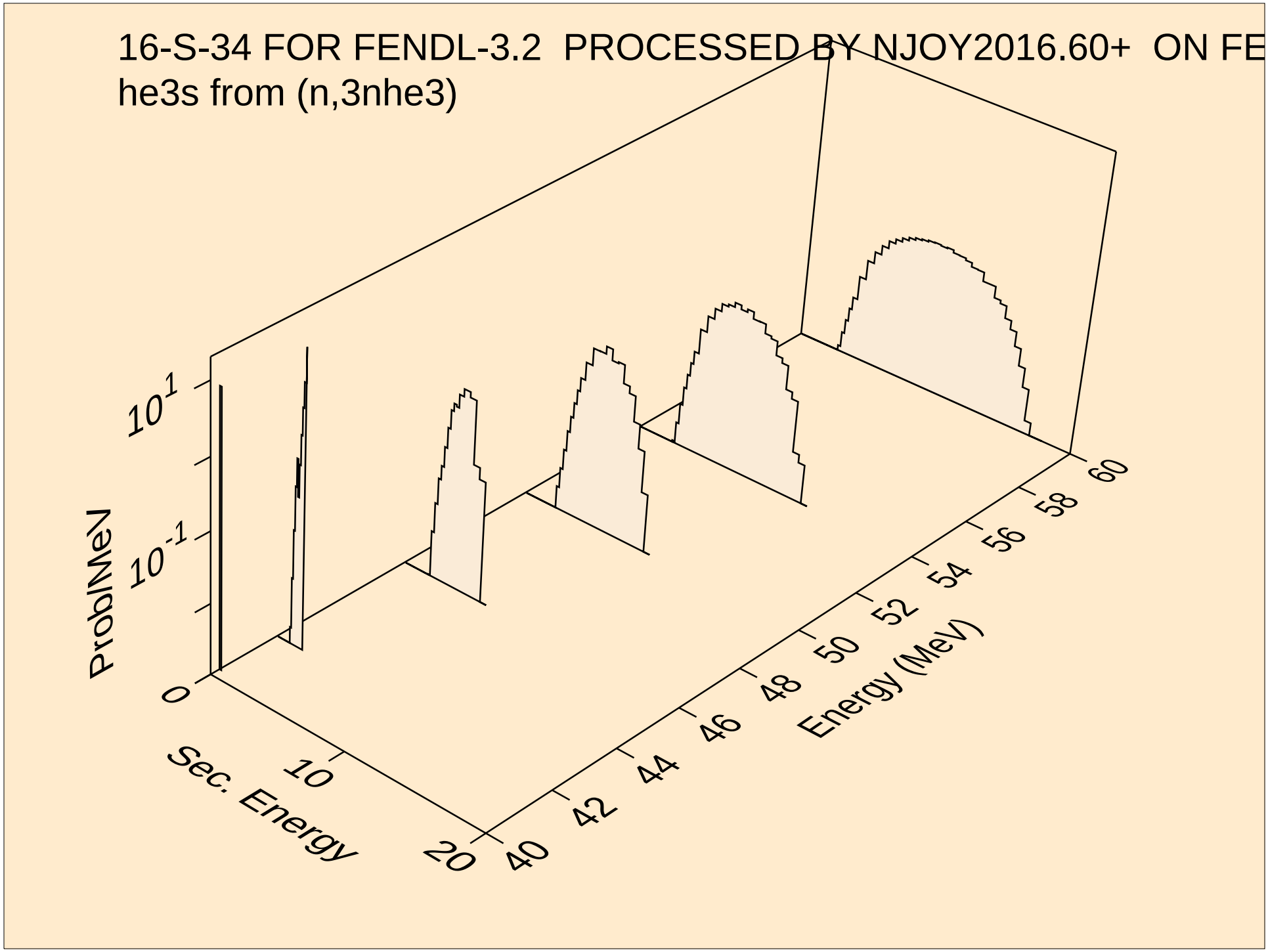

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
tritons from (n,nta)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
30
35
40
45
50
55
60
Energy (MeV)

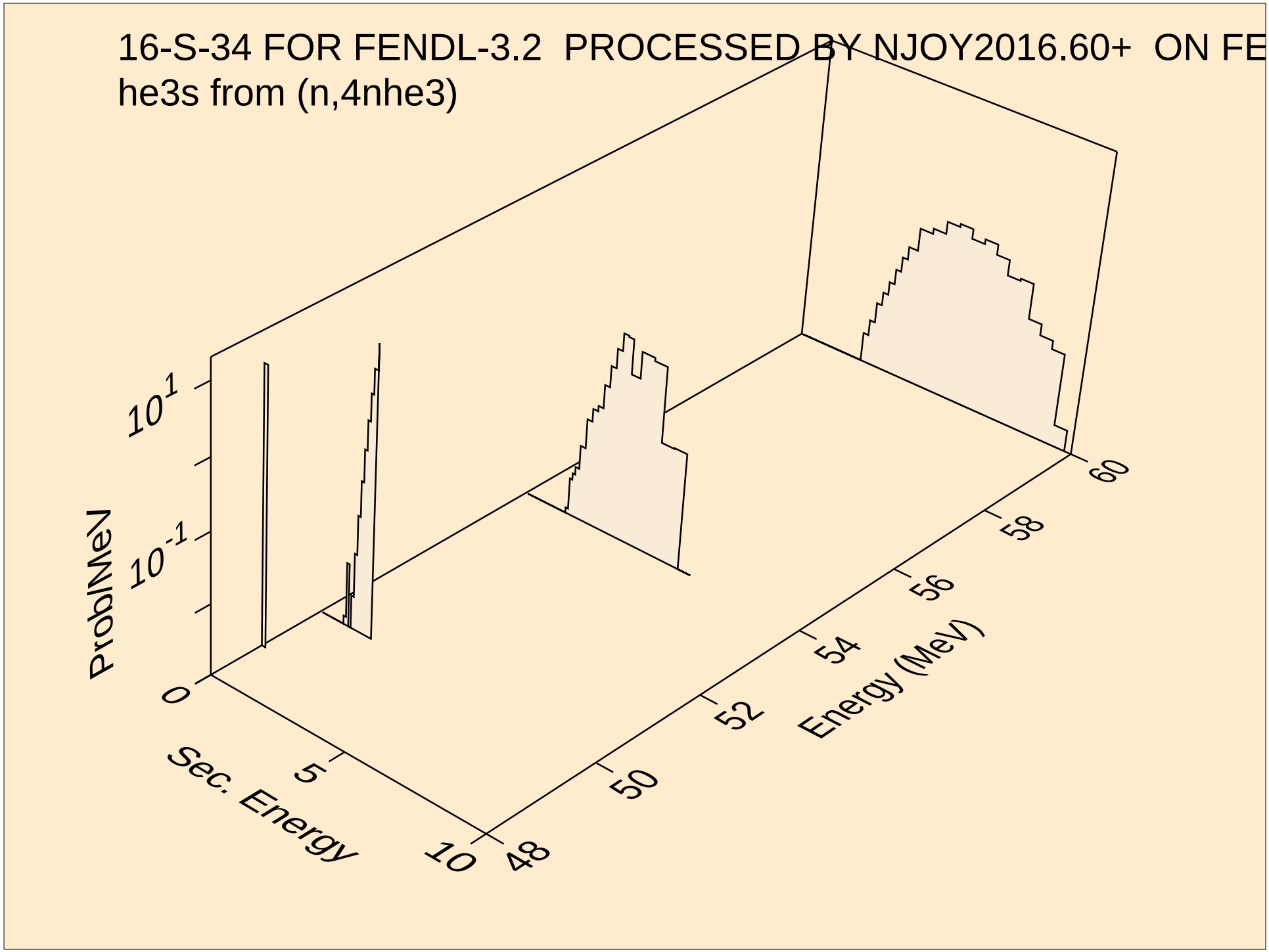

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,x)
Prob/MeV
10-3
10-5
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

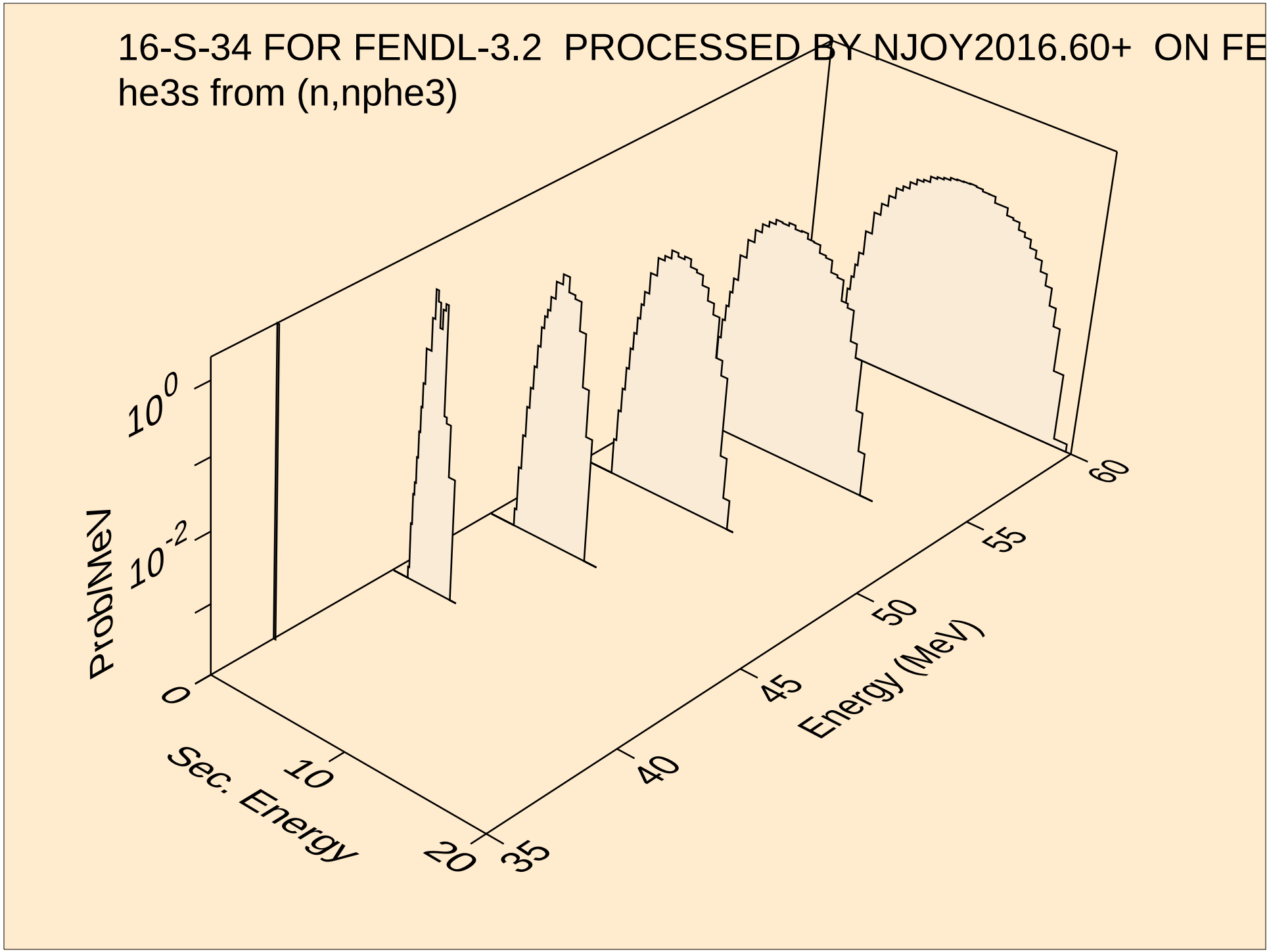

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,n*)he3
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

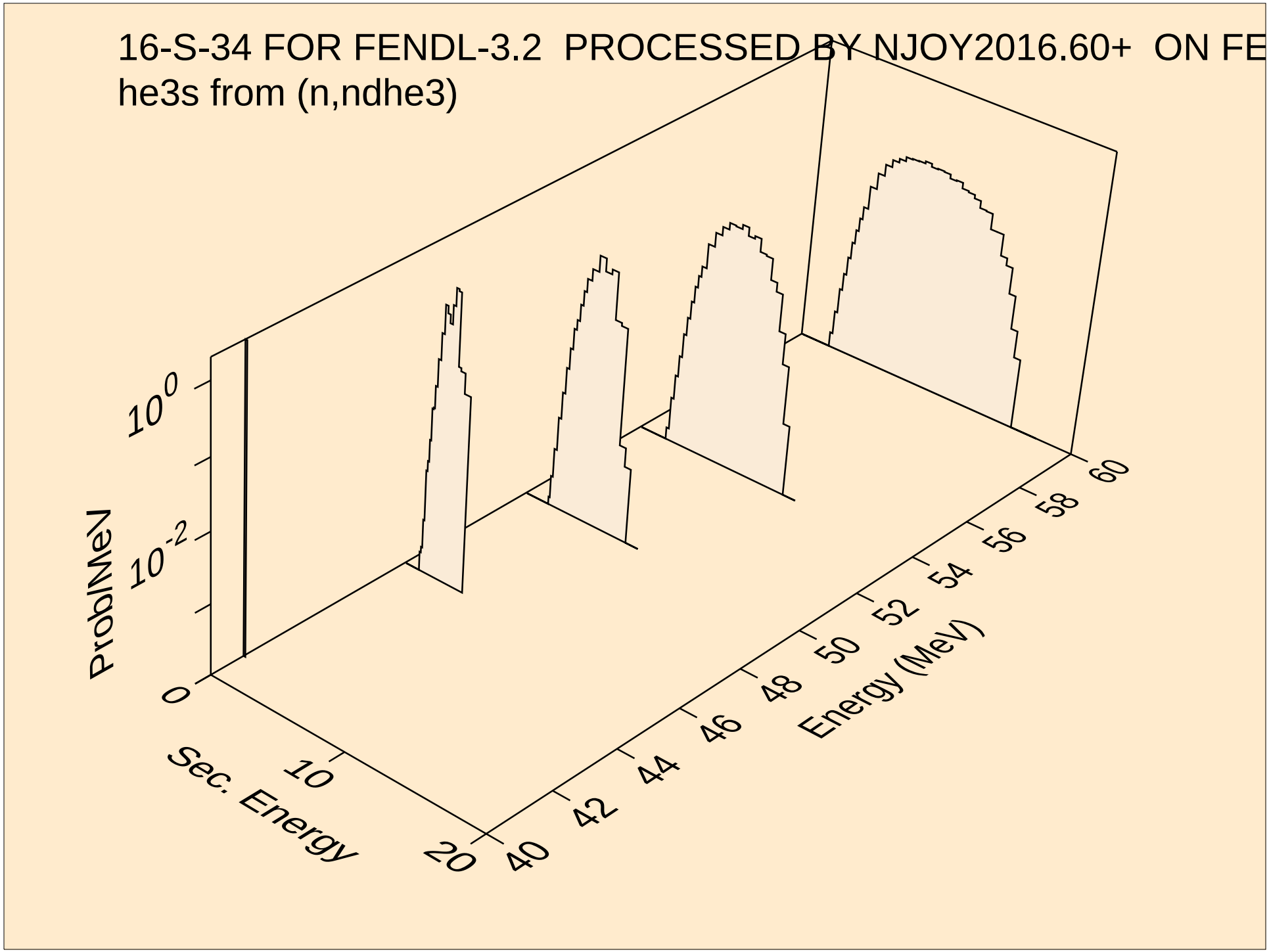

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,he3)
Prob/MeV
10^0
10^-2
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

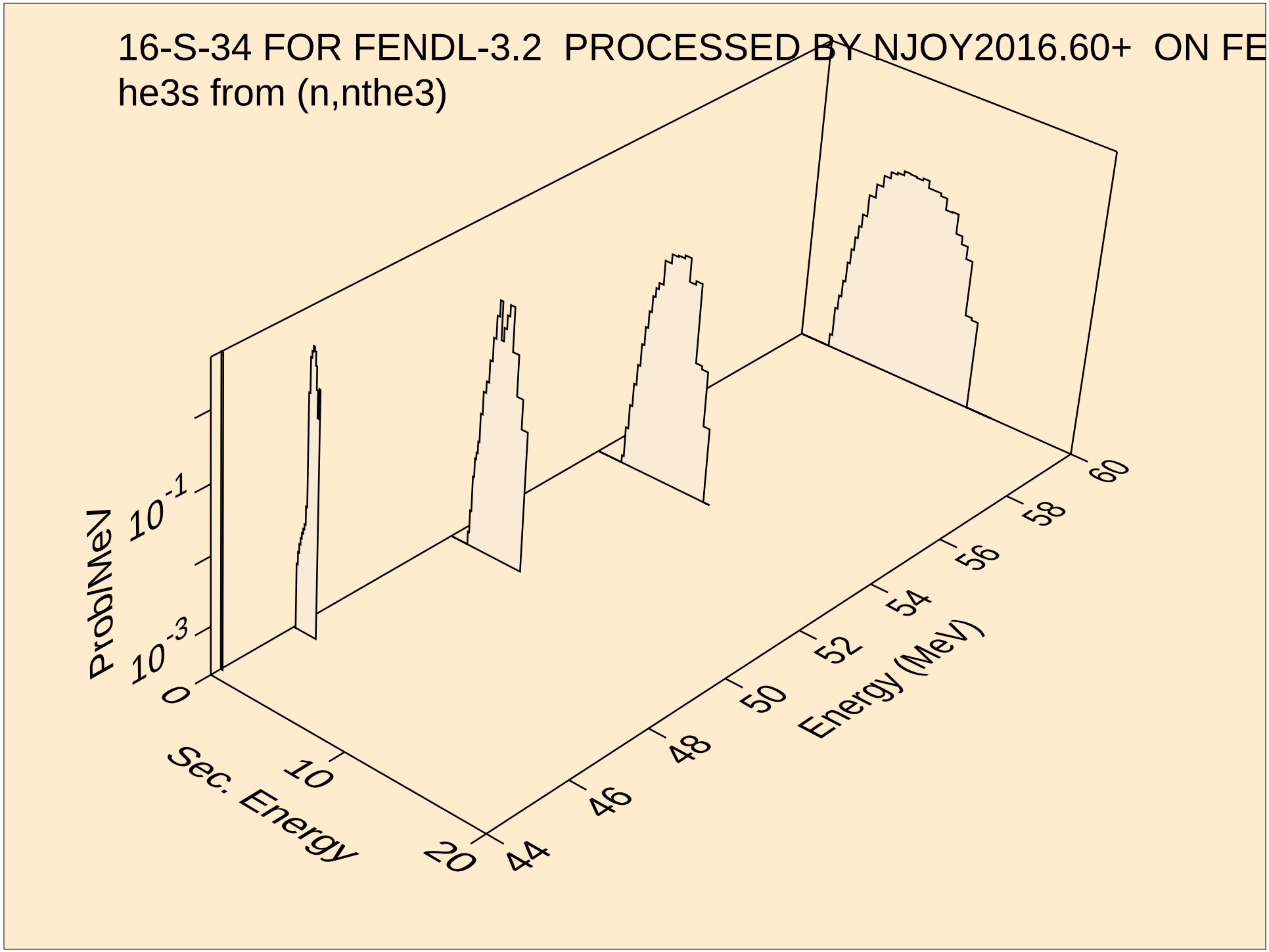

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,2nhe3)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

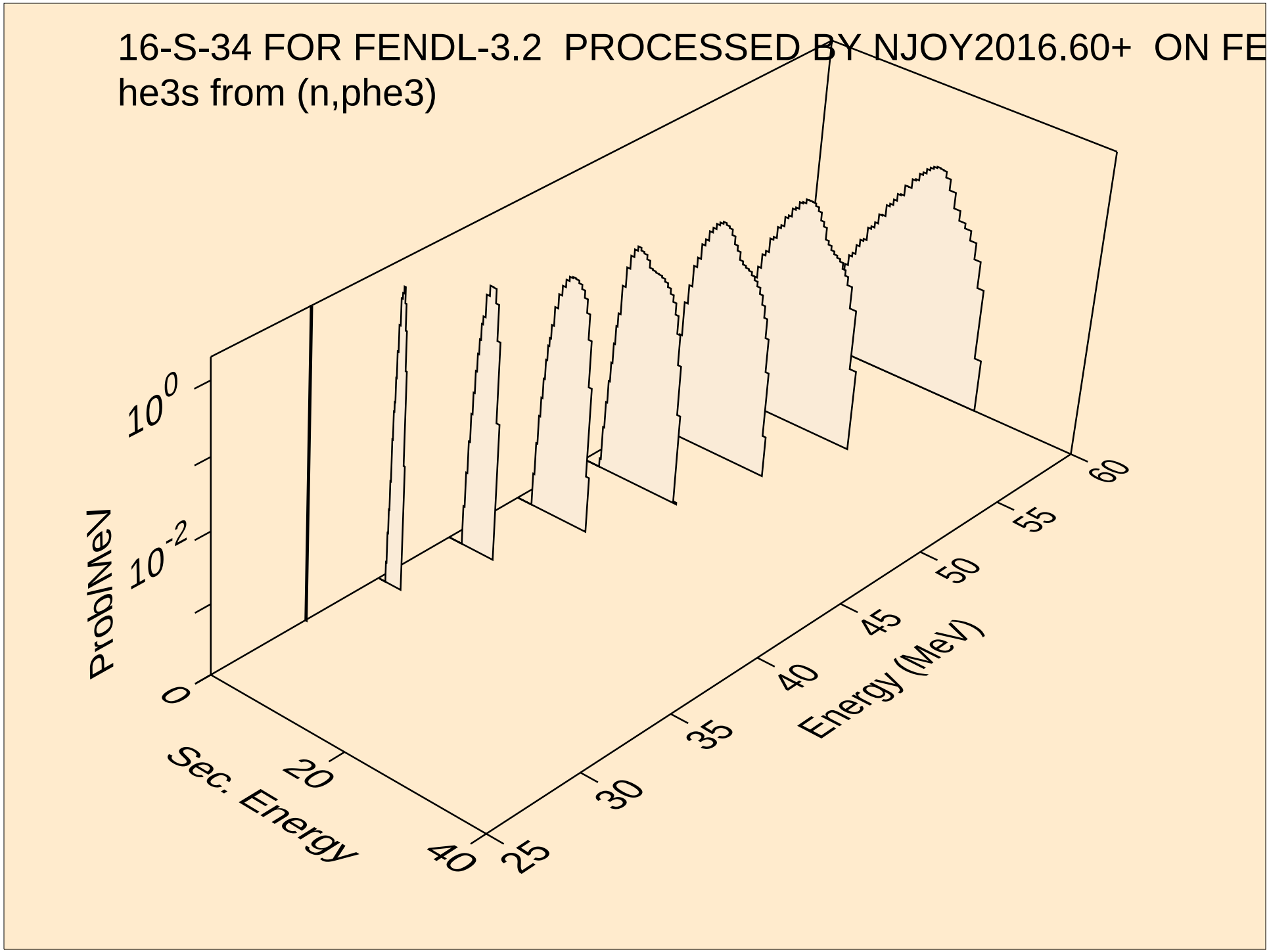

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,3nhe3)
Prob/MeV
10^1
10^-1
0
Sec. Energy
10
20
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

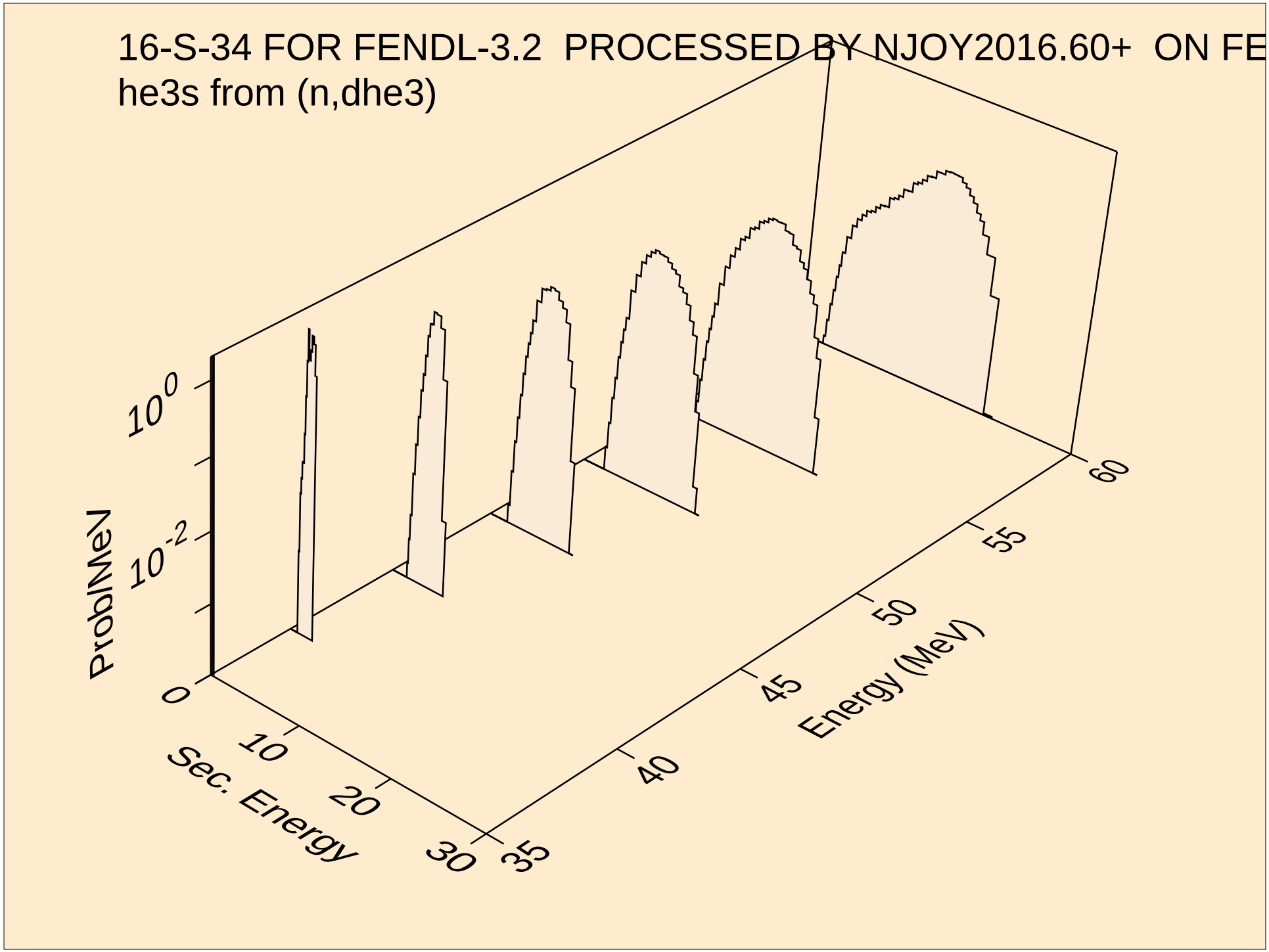

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,4nhe3)
Prob/MeV
10^1
10^-1
0
Sec. Energy
5
10
48
50
52
54
56
58
60
Energy (MeV)

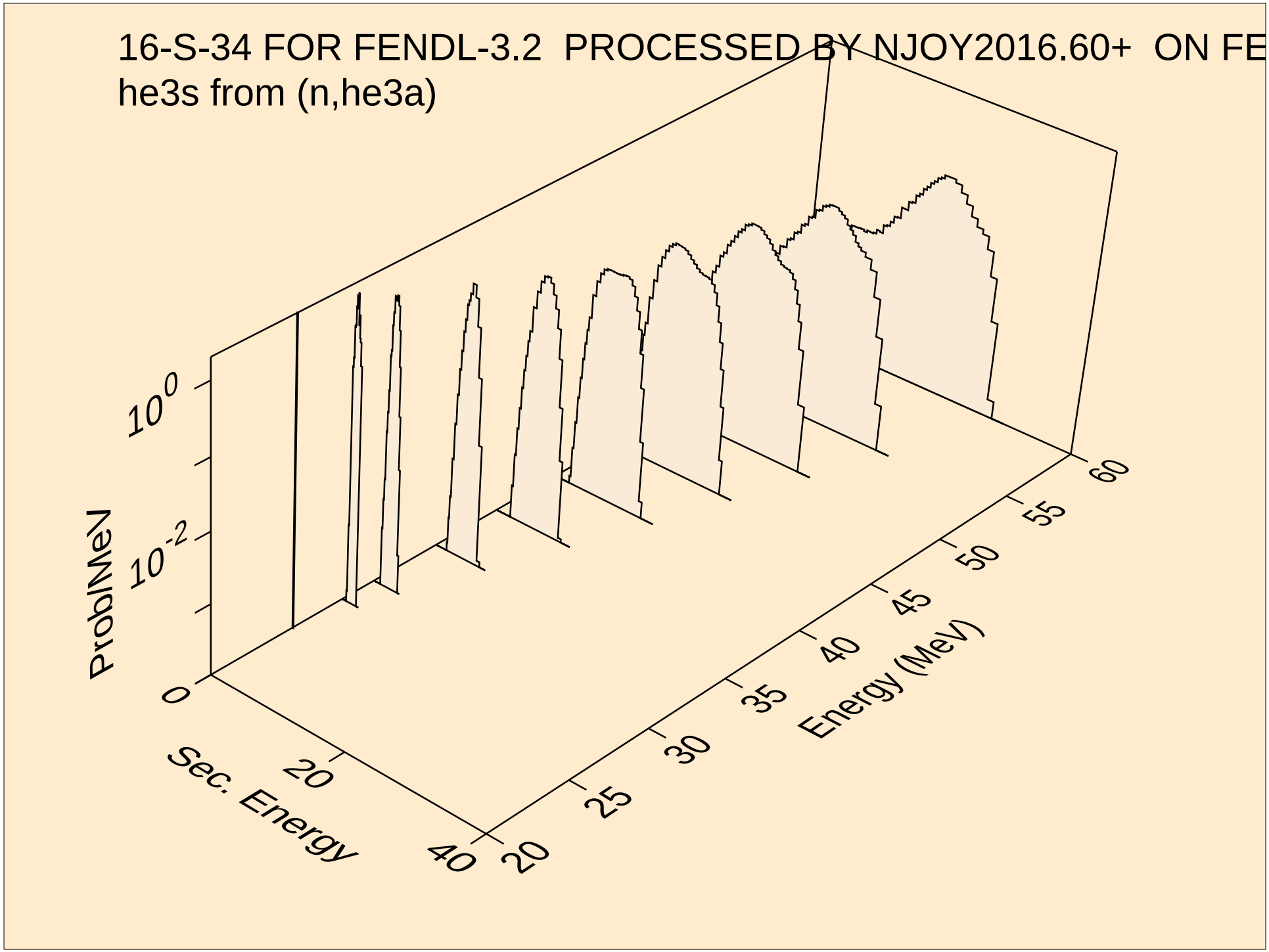

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,nphe3)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
35
40
45
Energy (MeV)
50
55
60

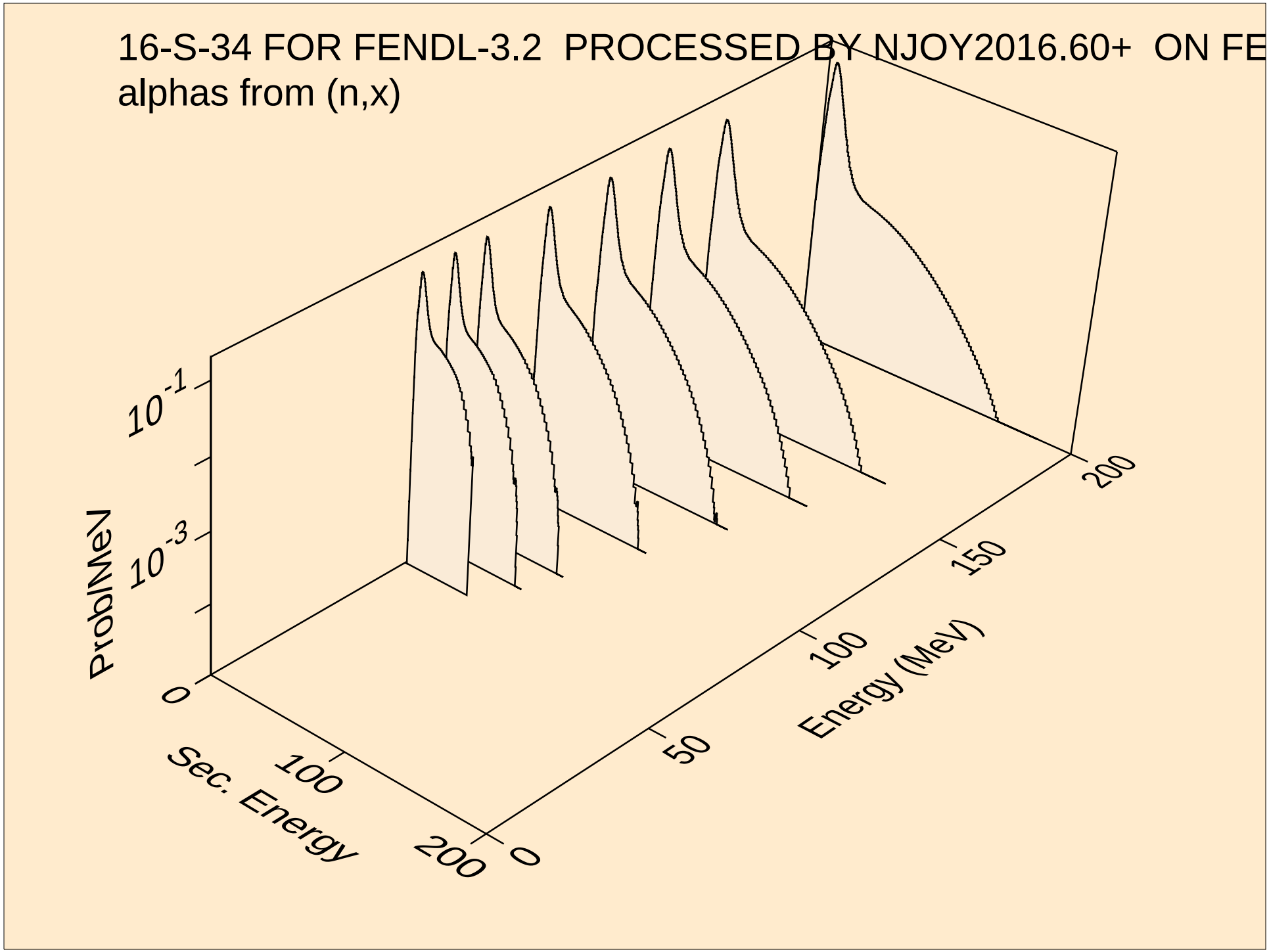

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,ndhe3)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
10
20
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

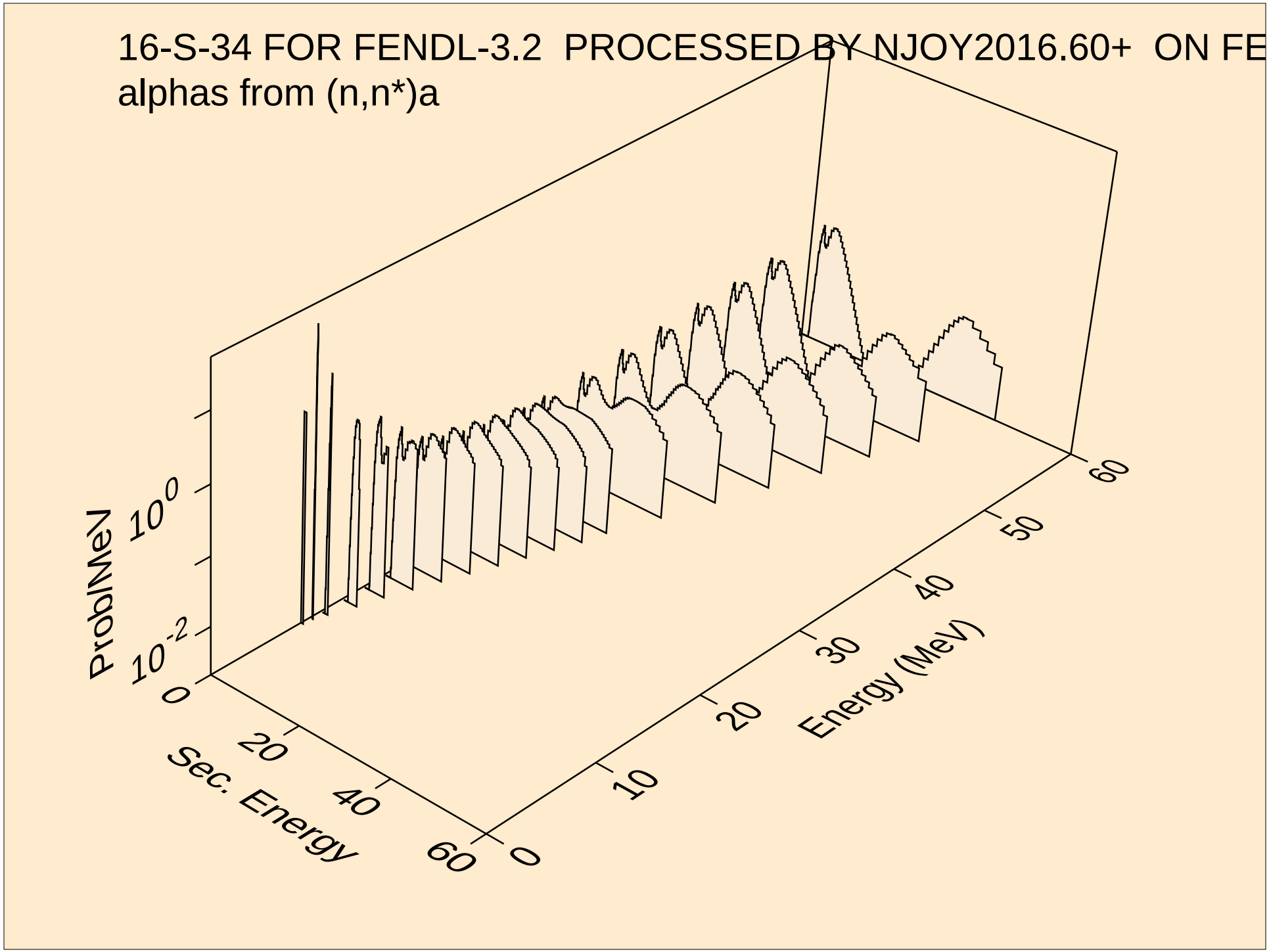

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,nthe3)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
44
46
48
50
52
54
56
58
60
Energy (MeV)

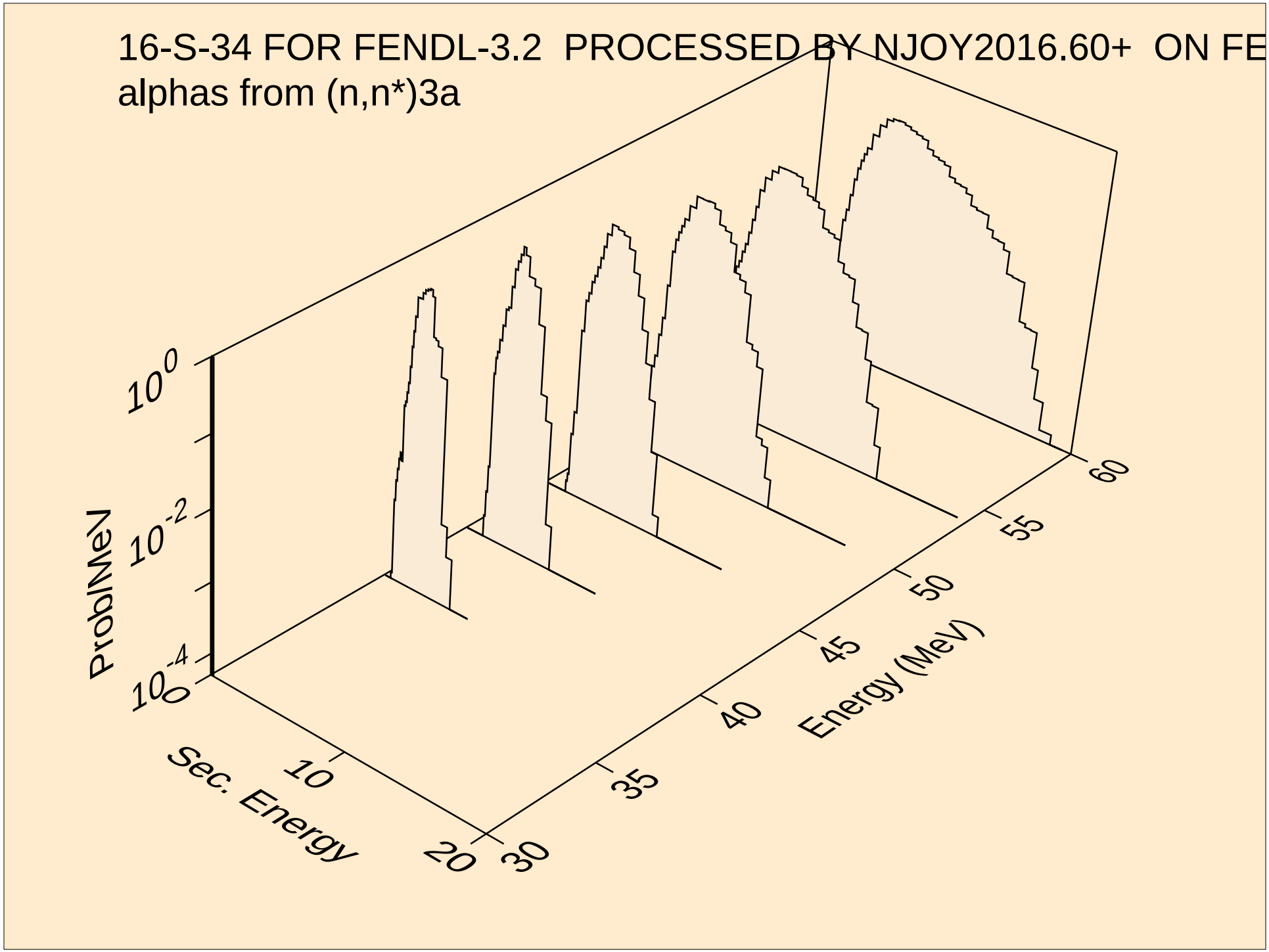

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,phe3)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

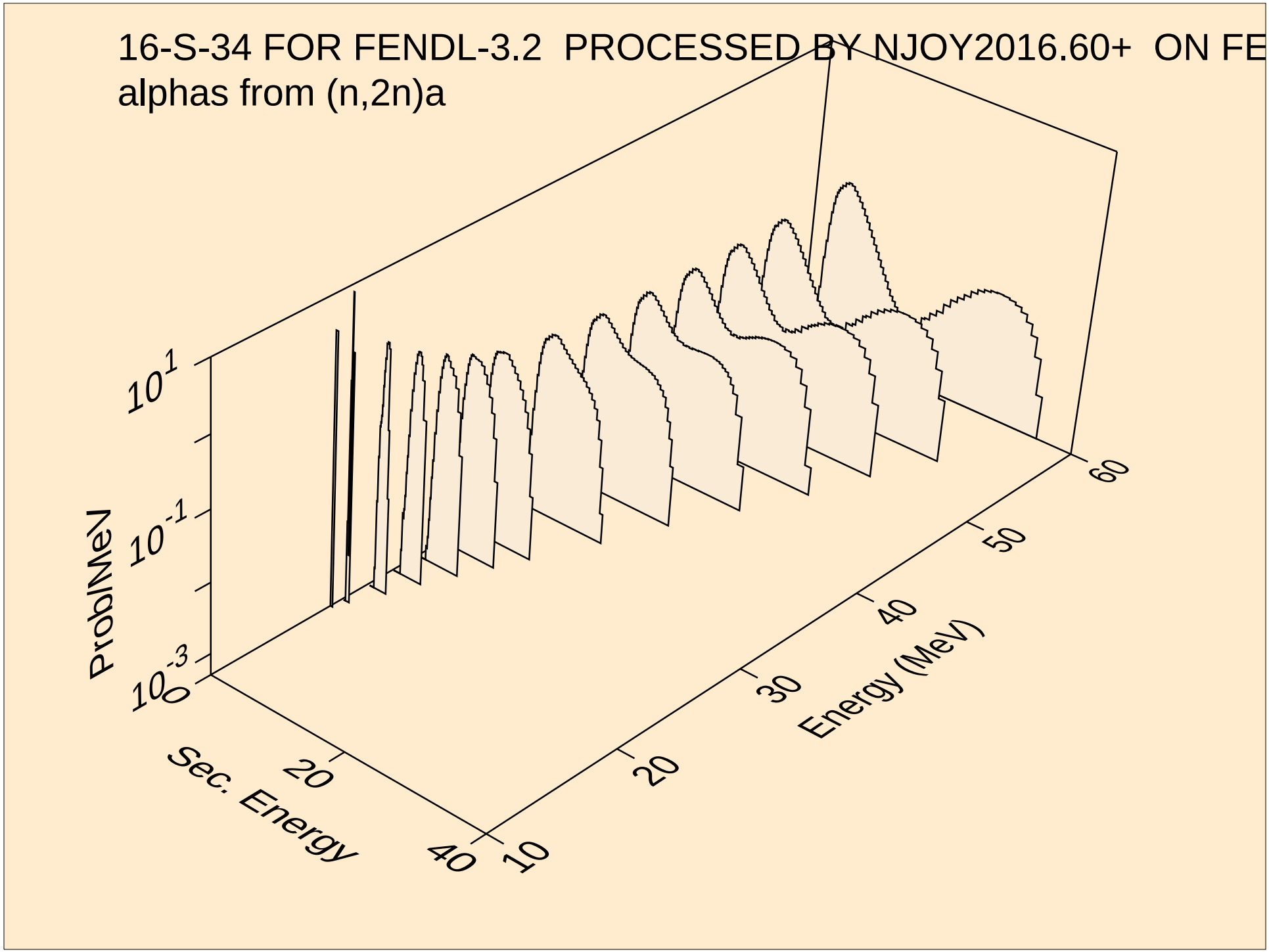

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,dhe3)
Prob/MeV
10^{0}
10^{-2}
0
10
20
30
35
Sec. Energy
40
45
50
55
60
Energy (MeV)

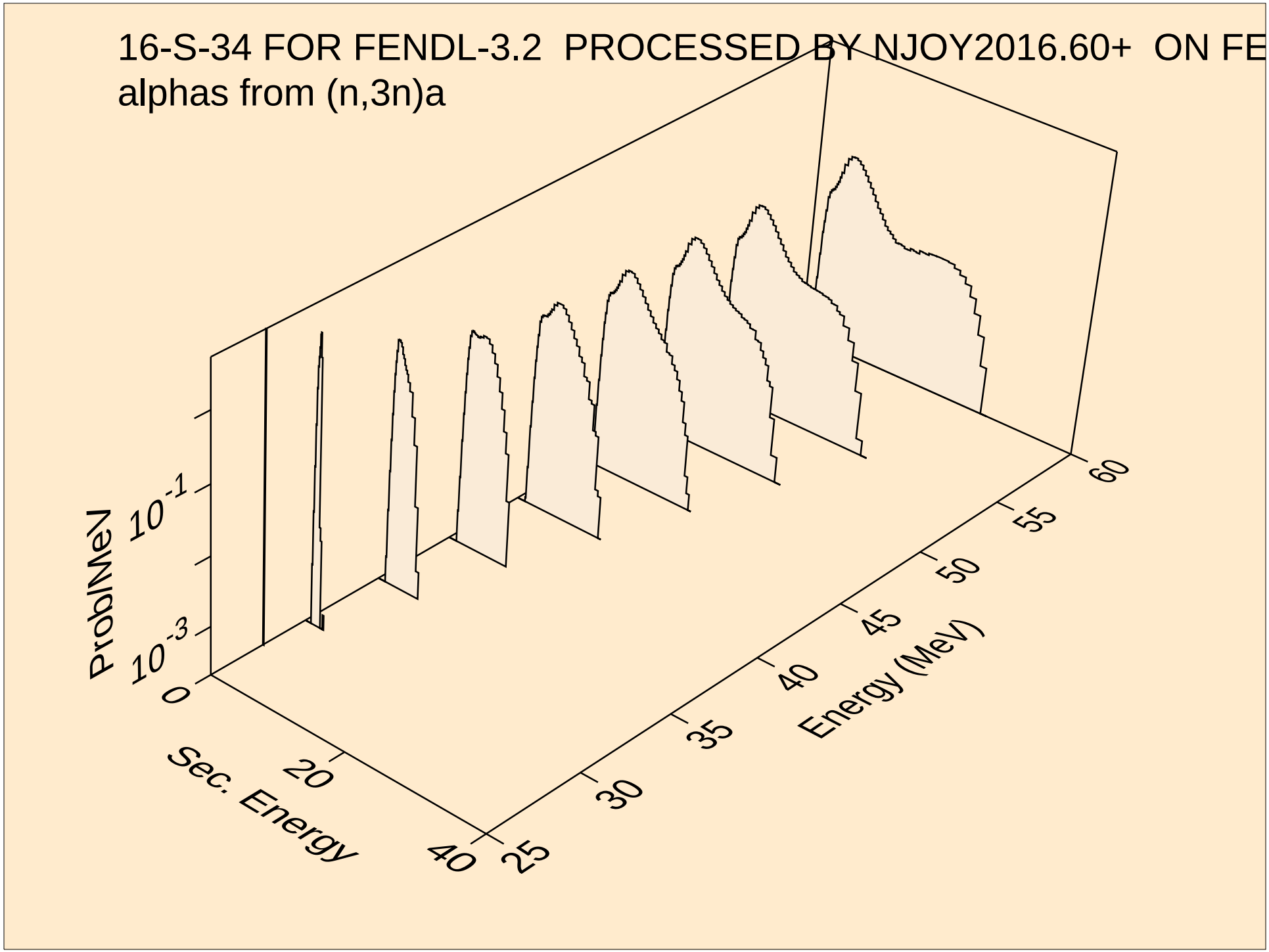

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
he3s from (n,he3a)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

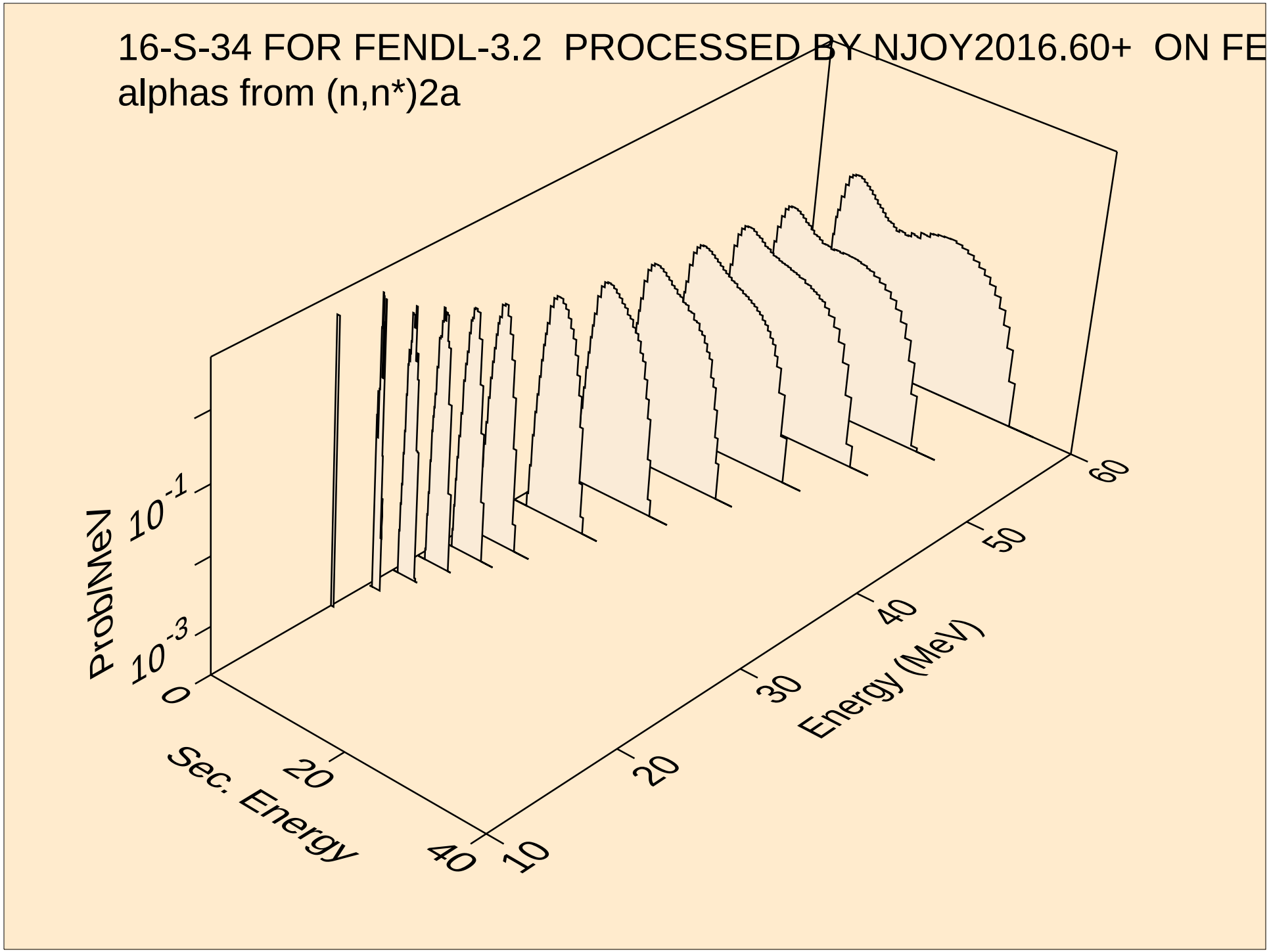

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
100
200
0
50
100
150
200
Energy (MeV)

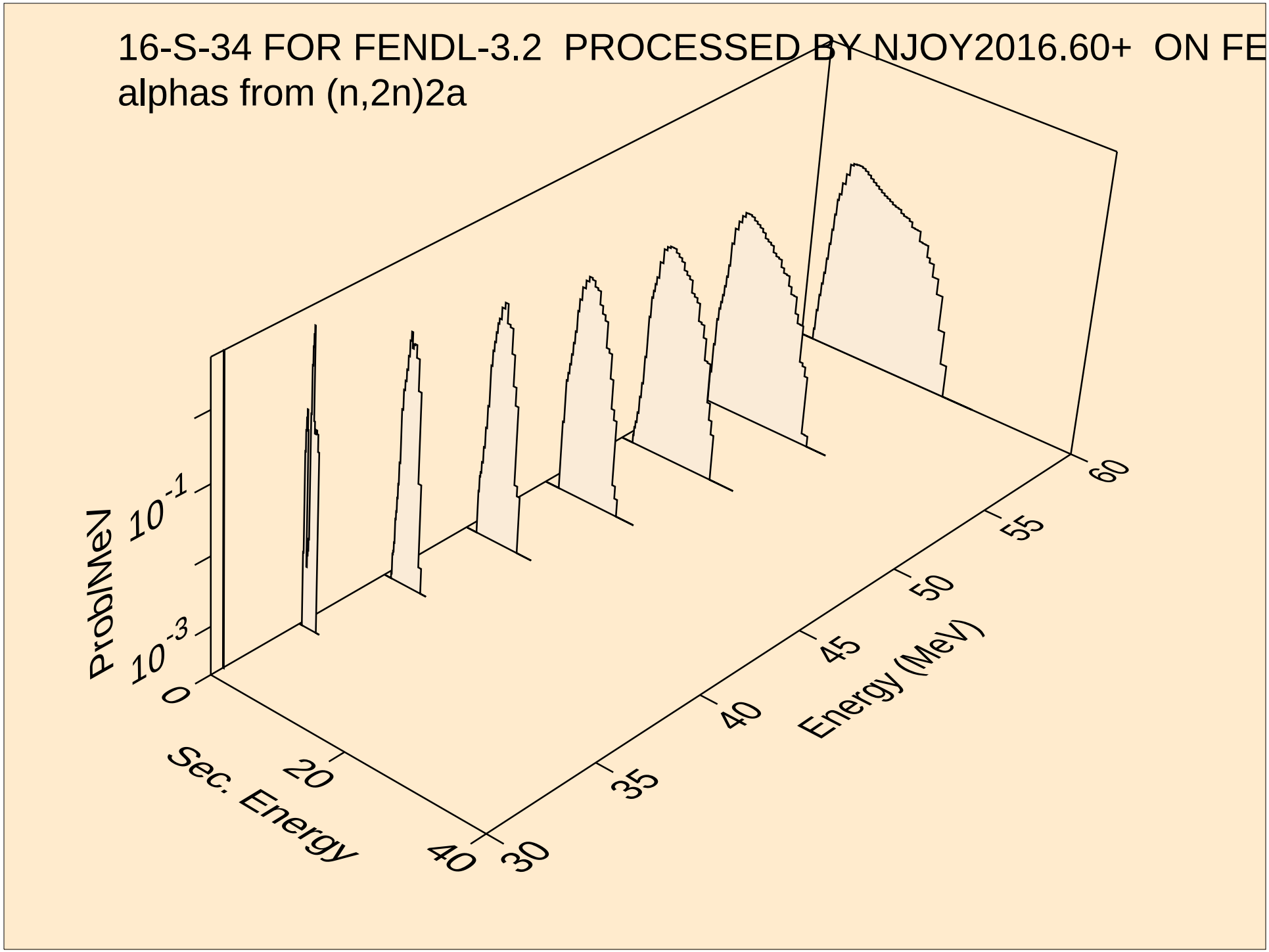

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,n*)a
Prob/MeV
10^0
10^-2
0
20
40
60
Sec. Energy
0
10
20
30
40
50
60
Energy (MeV)

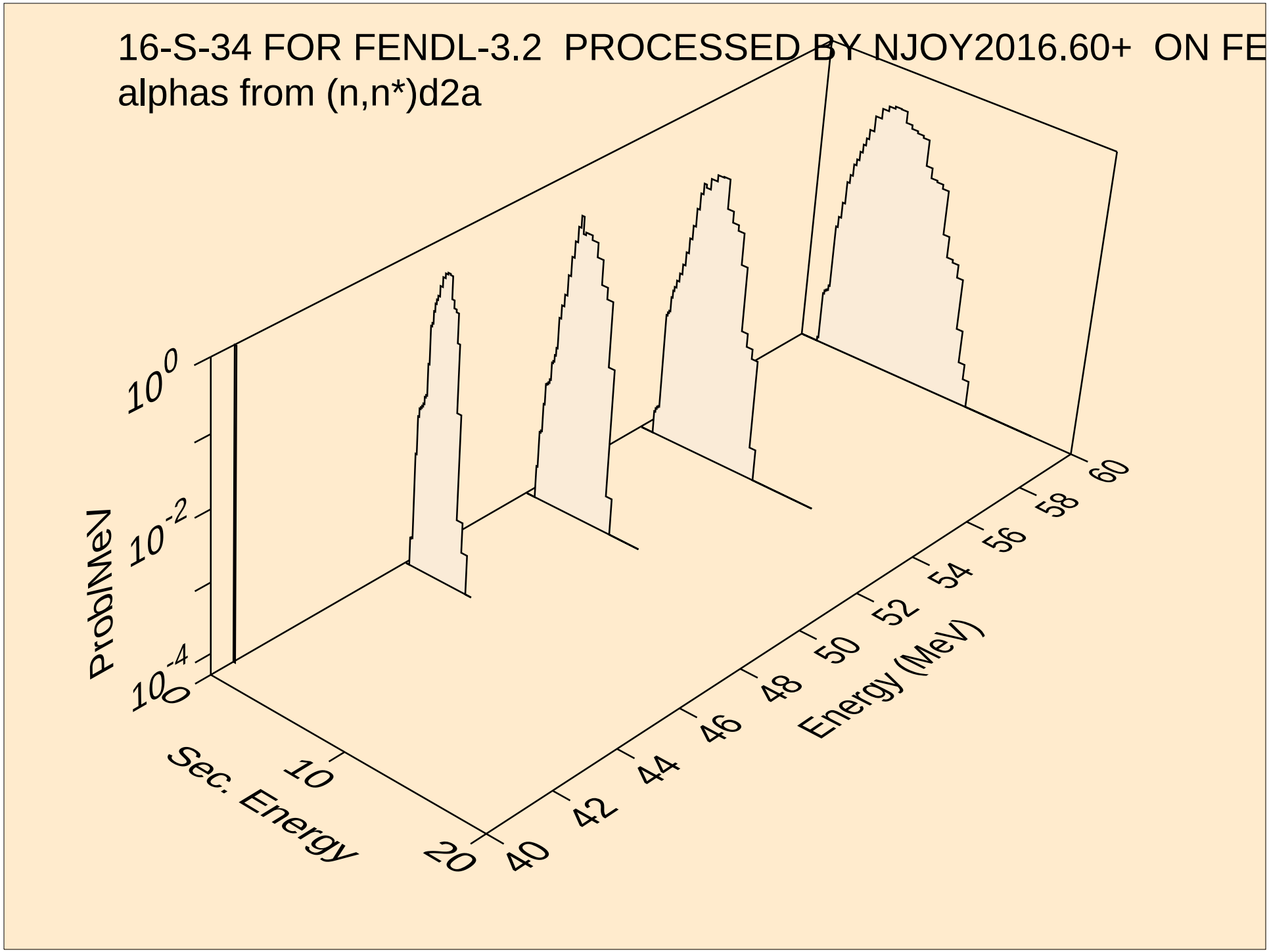

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,n*)3a
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
30
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

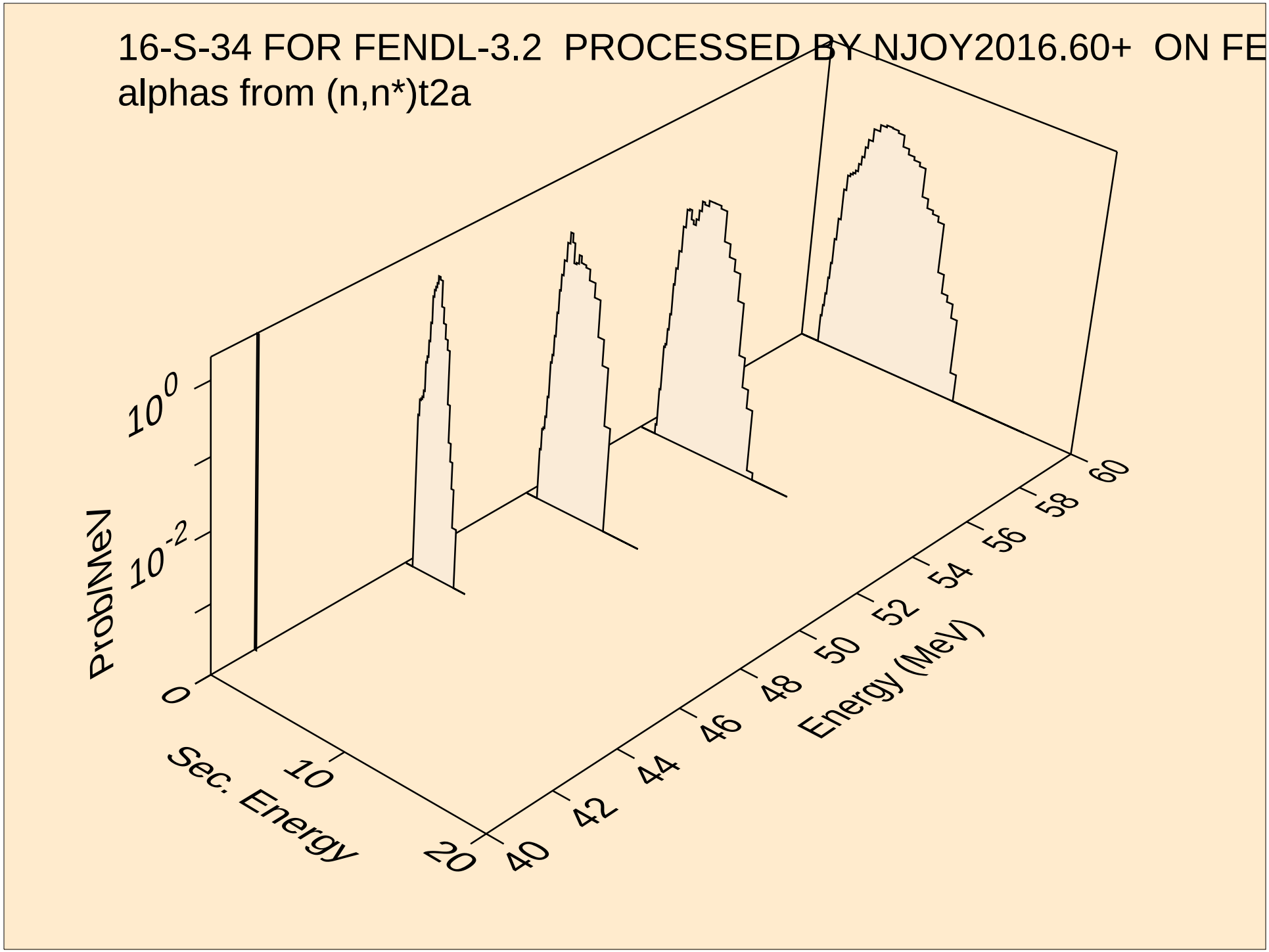

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,2n)a
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

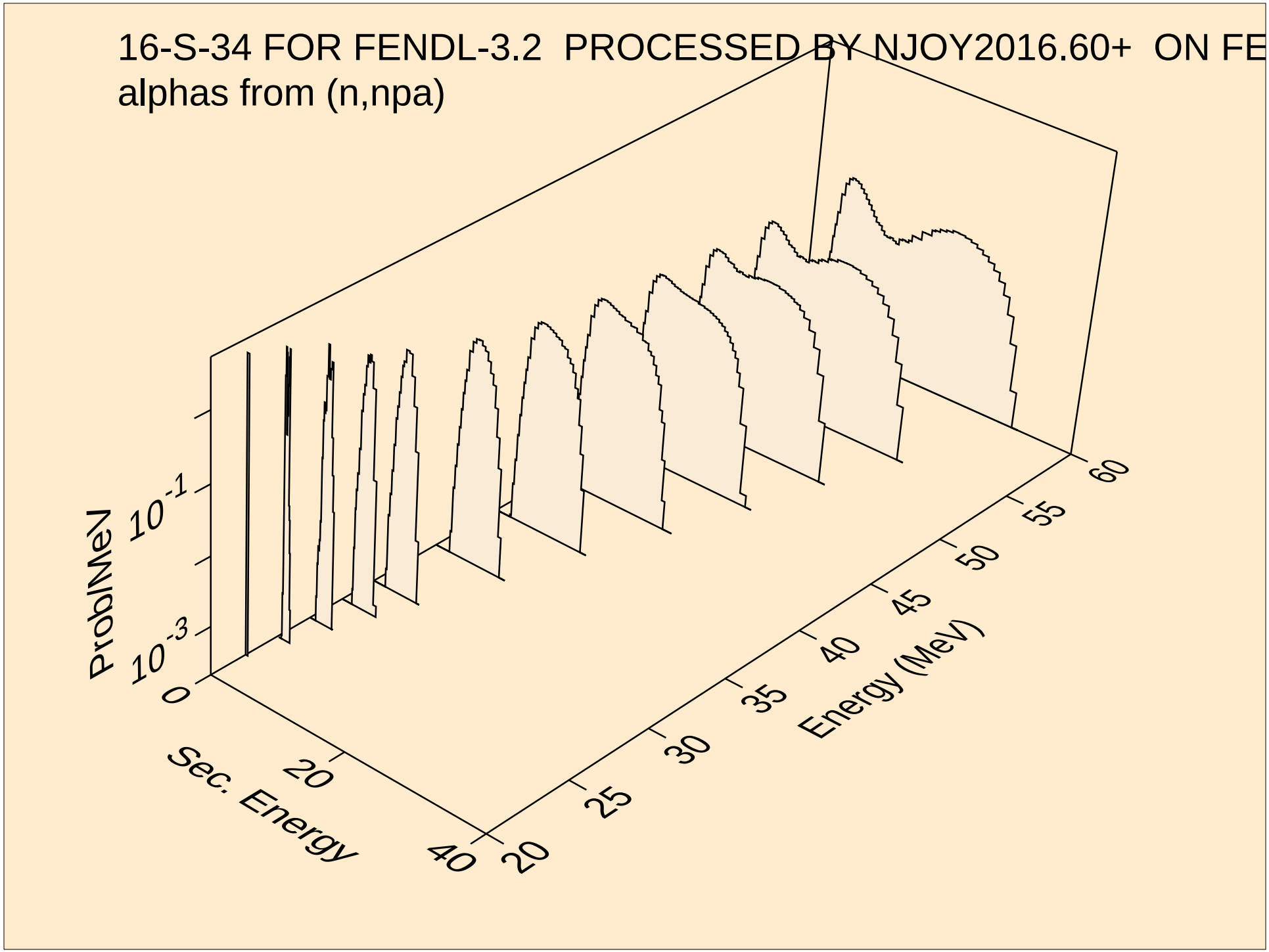

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,3n)a
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

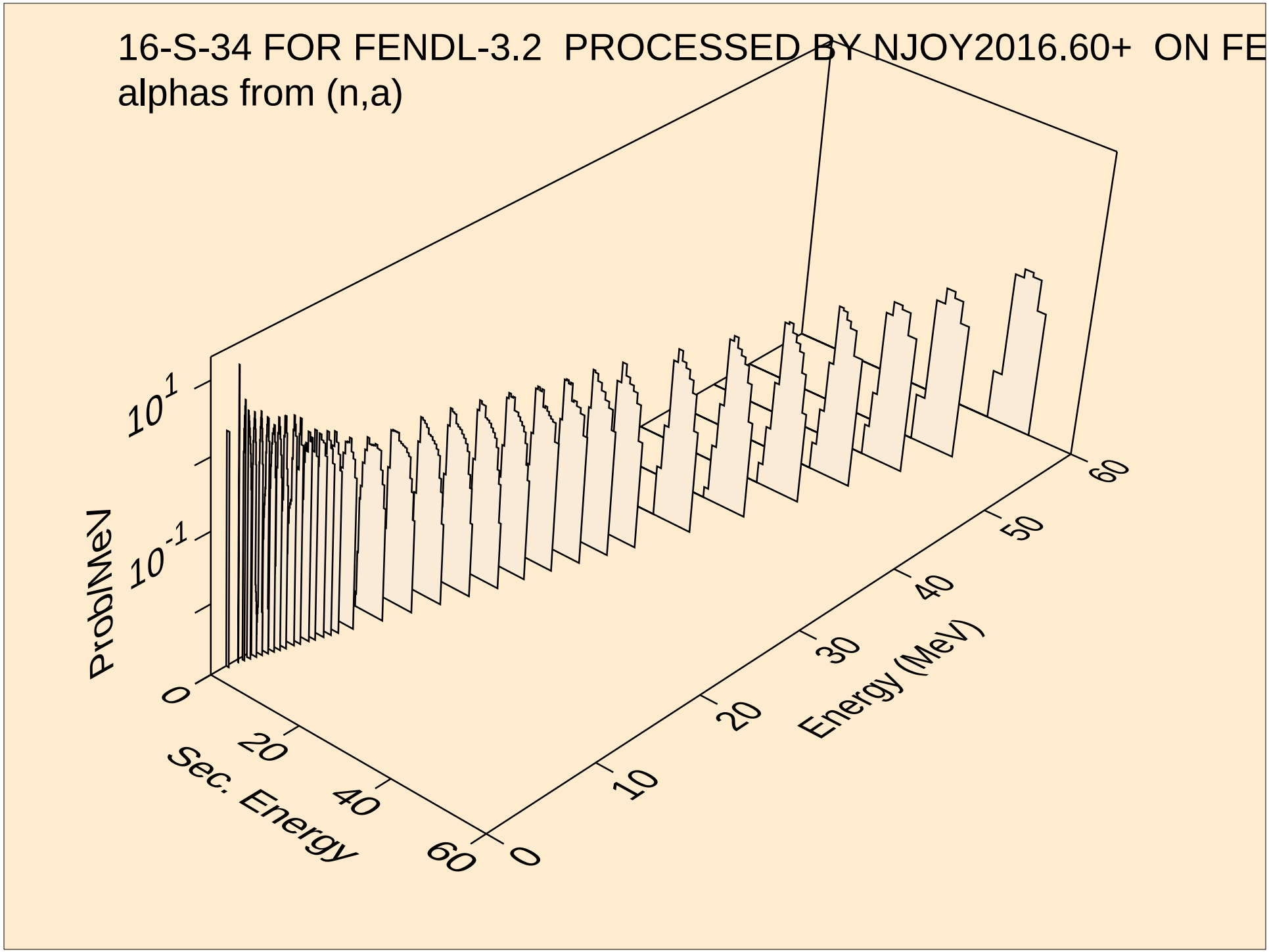

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,n*)2a
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

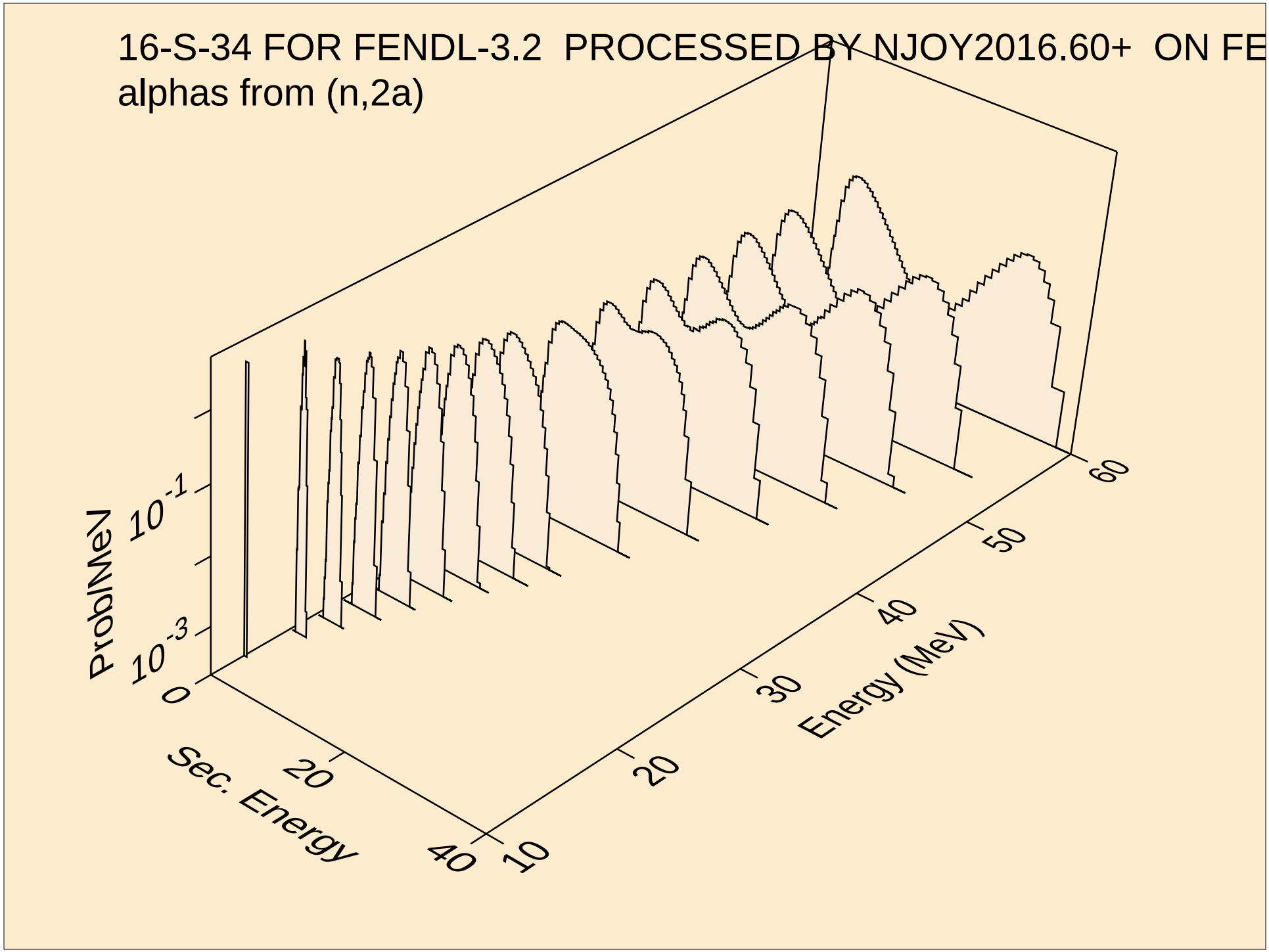

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,2n)2a
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
30
35
40
45
50
55
60
Energy (MeV)

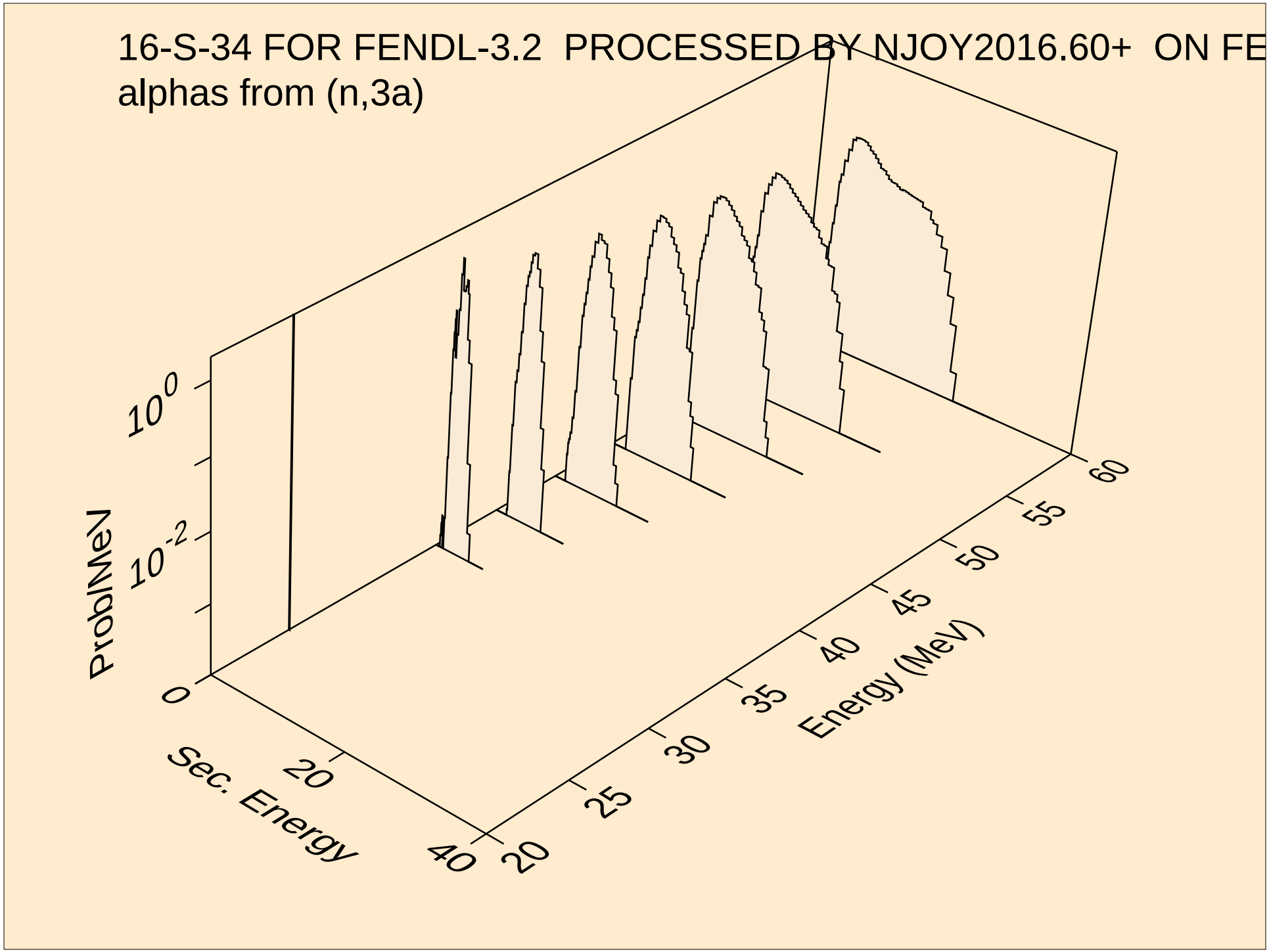

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,n*)d2a
Prob/MeV
10^0
10^-2
10^-4
Sec. Energy
0
10
20
Energy (MeV)
40
42
44
46
48
50
52
54
56
58
60

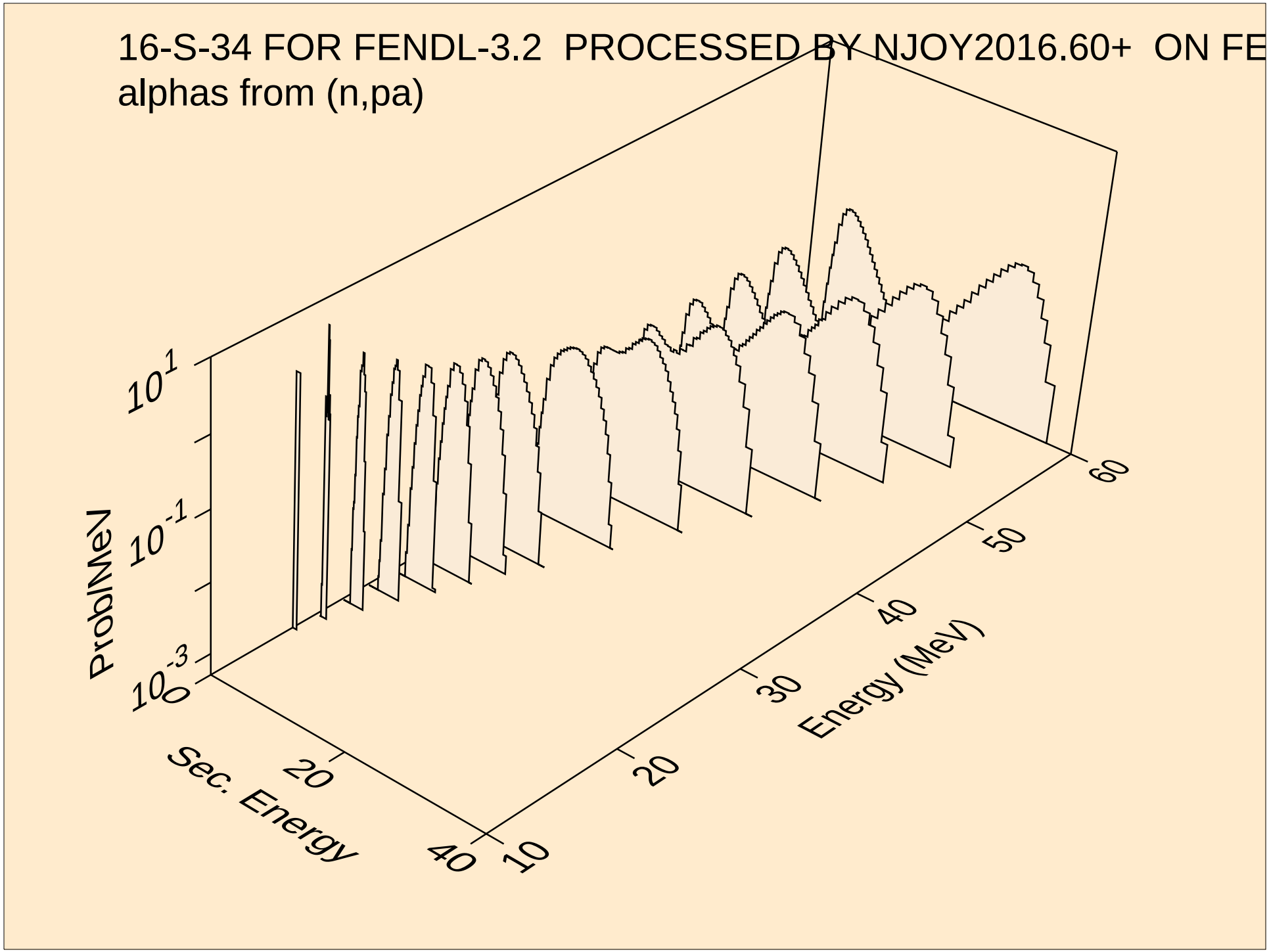

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,n*)t2a
Prob/MeV
10^0
10^-2
0
Sec. Energy
10
20
40
42
44
46
48
50
52
54
56
58
60
Energy (MeV)

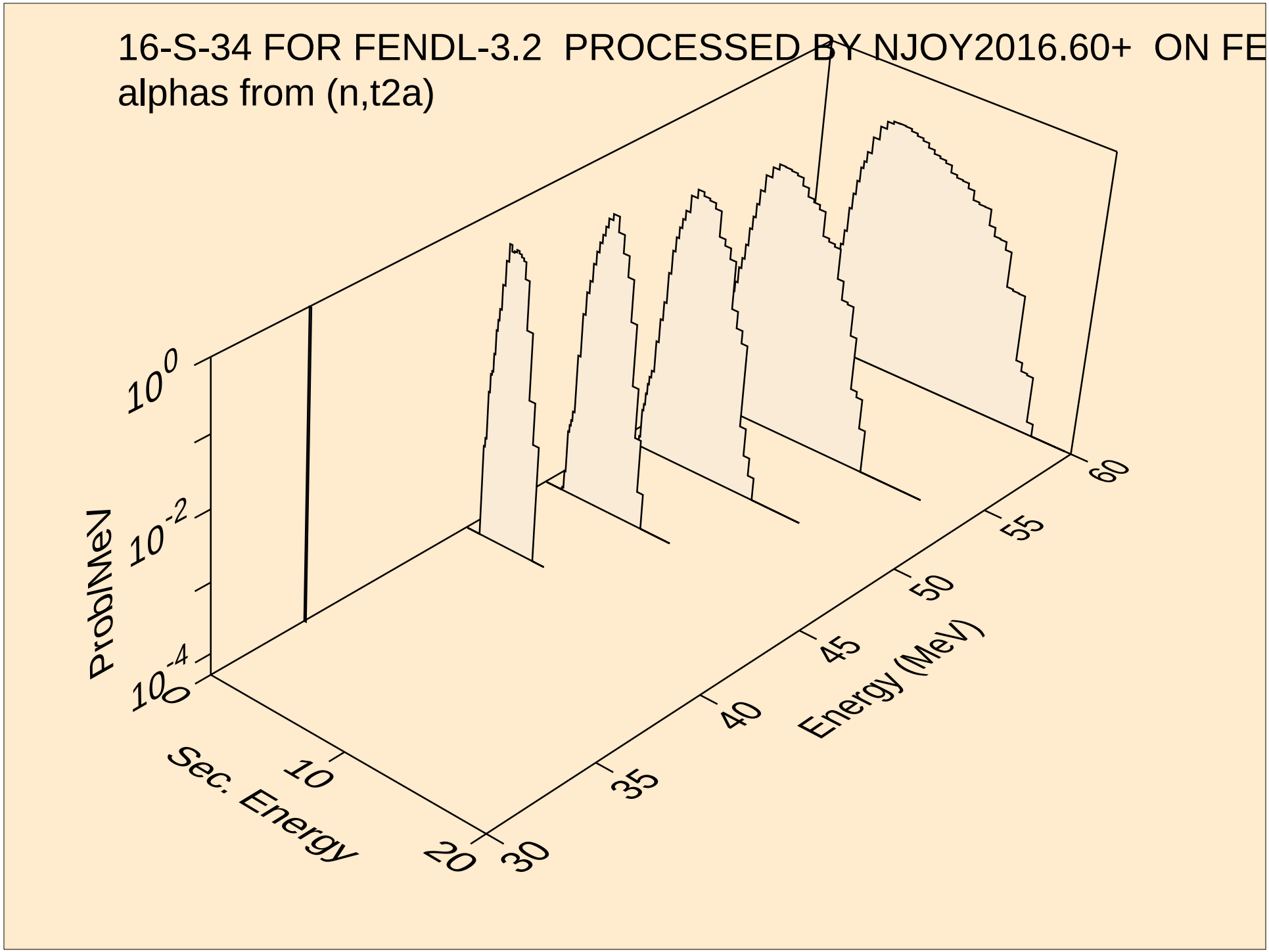

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

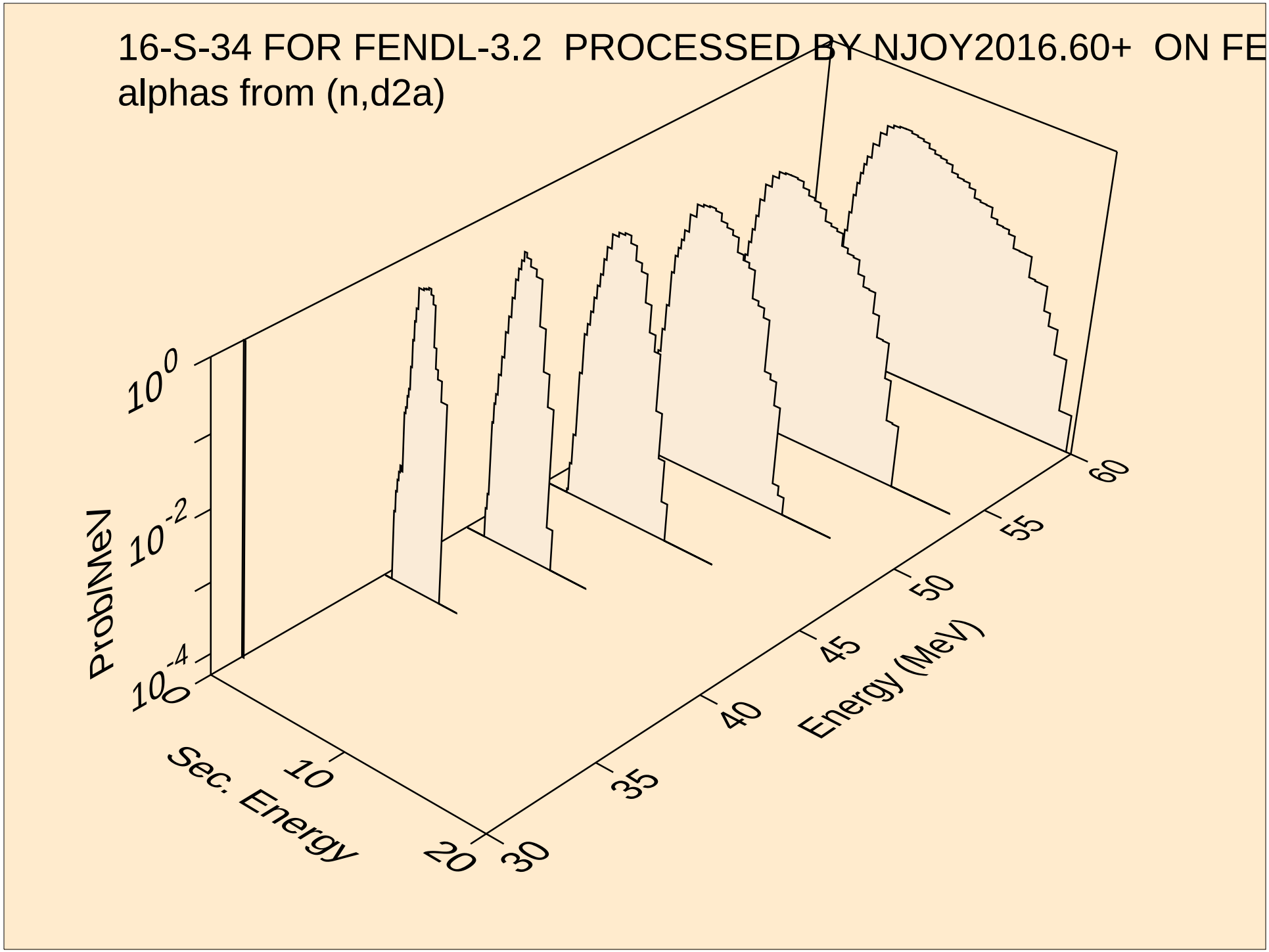

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,a)
Prob/MeV
10^{1}
10^{-1}
0
20
40
60
Sec. Energy
0
10
20
30
40
50
60
Energy (MeV)

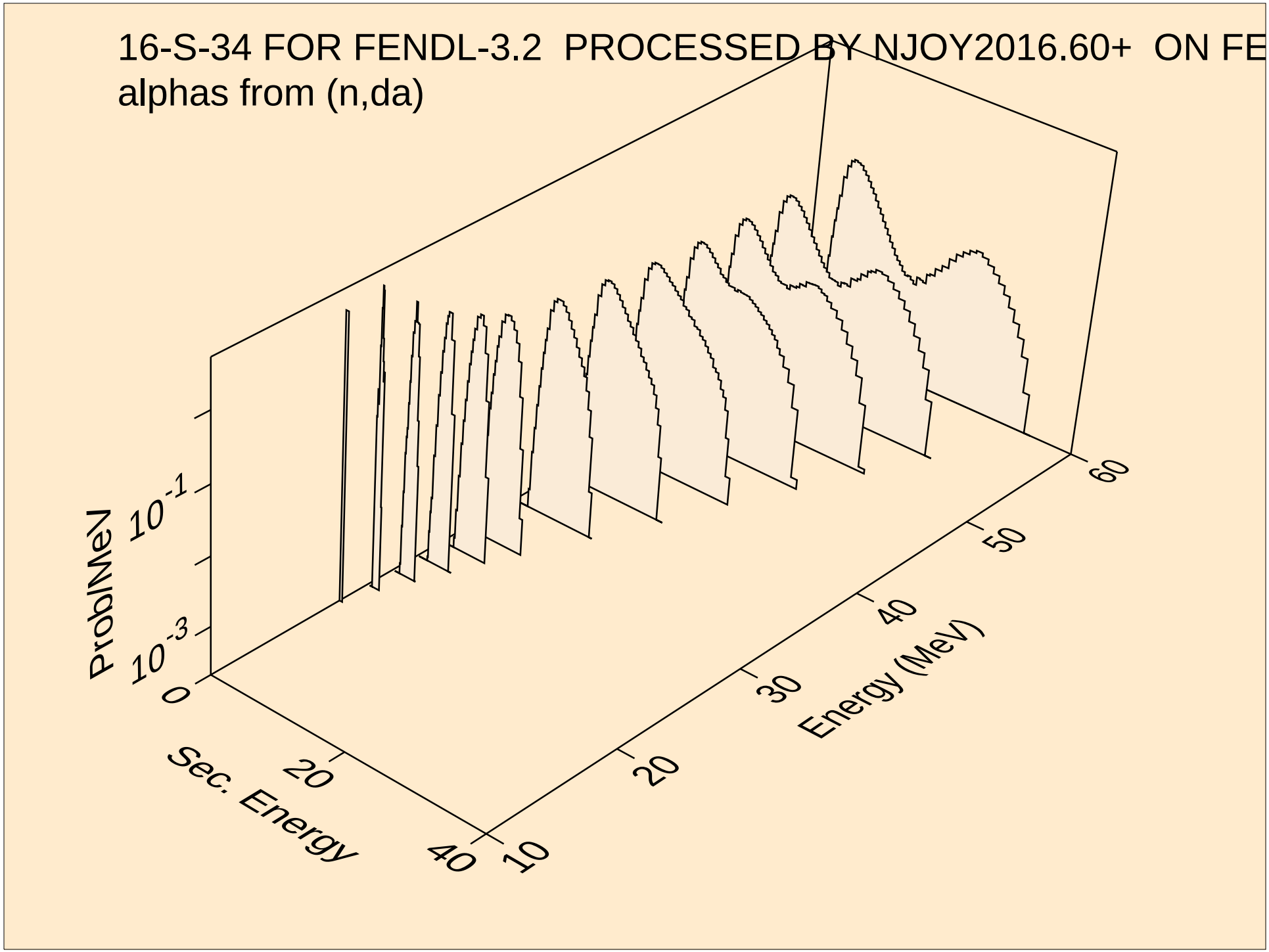

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,2a)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

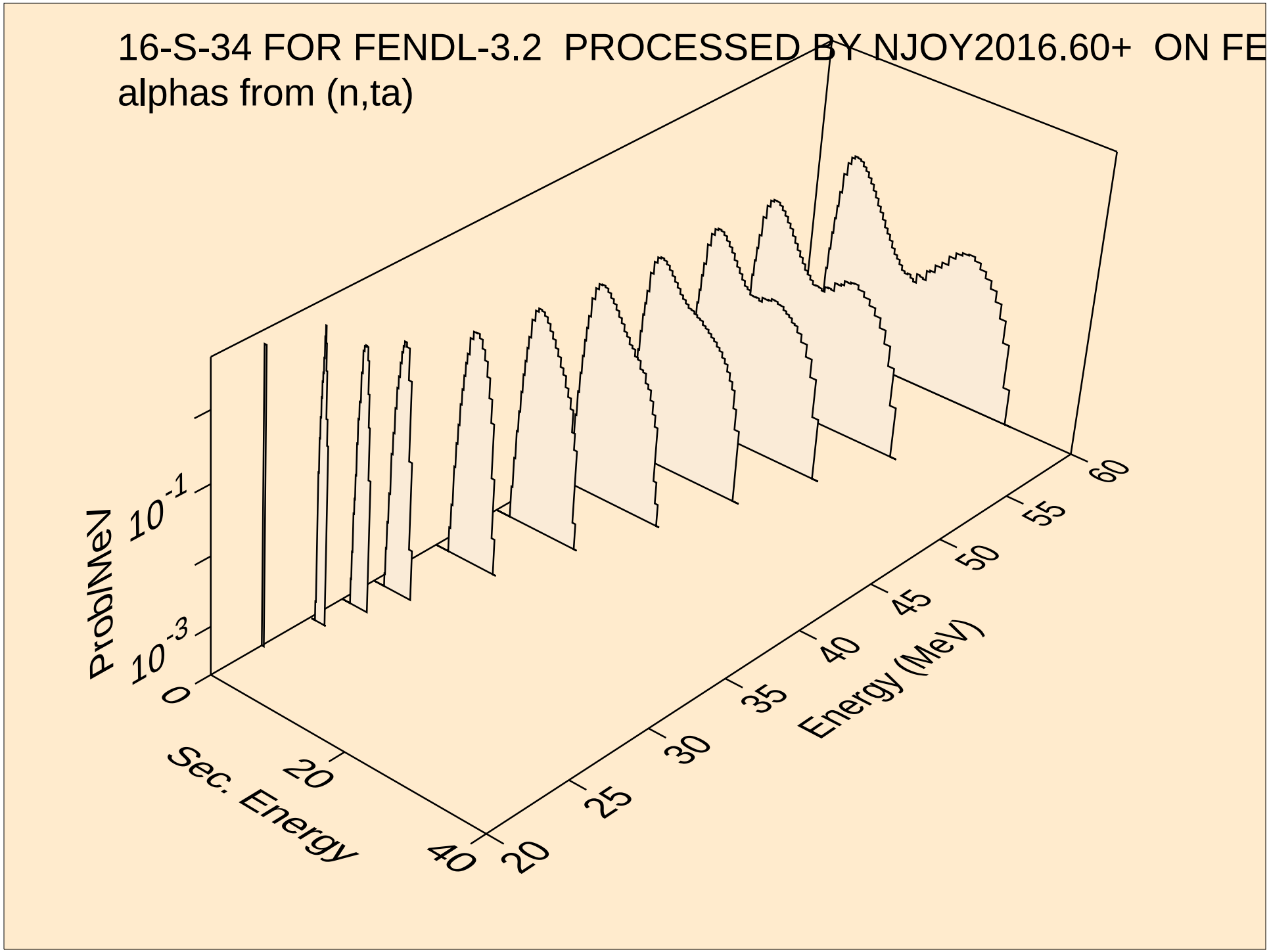

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,3a)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

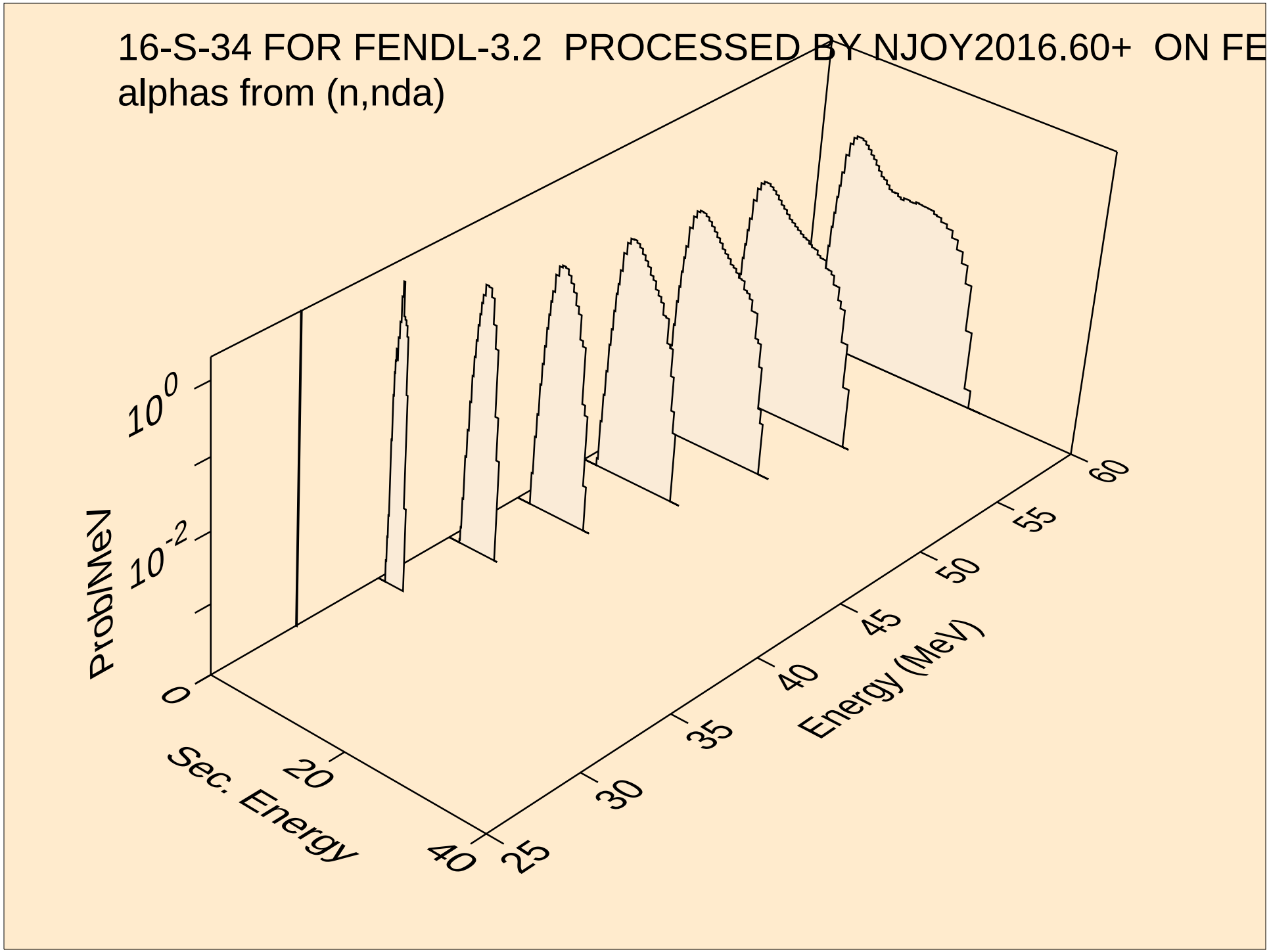

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,pa)
Prob/MeV
10^1
10^-1
10^-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

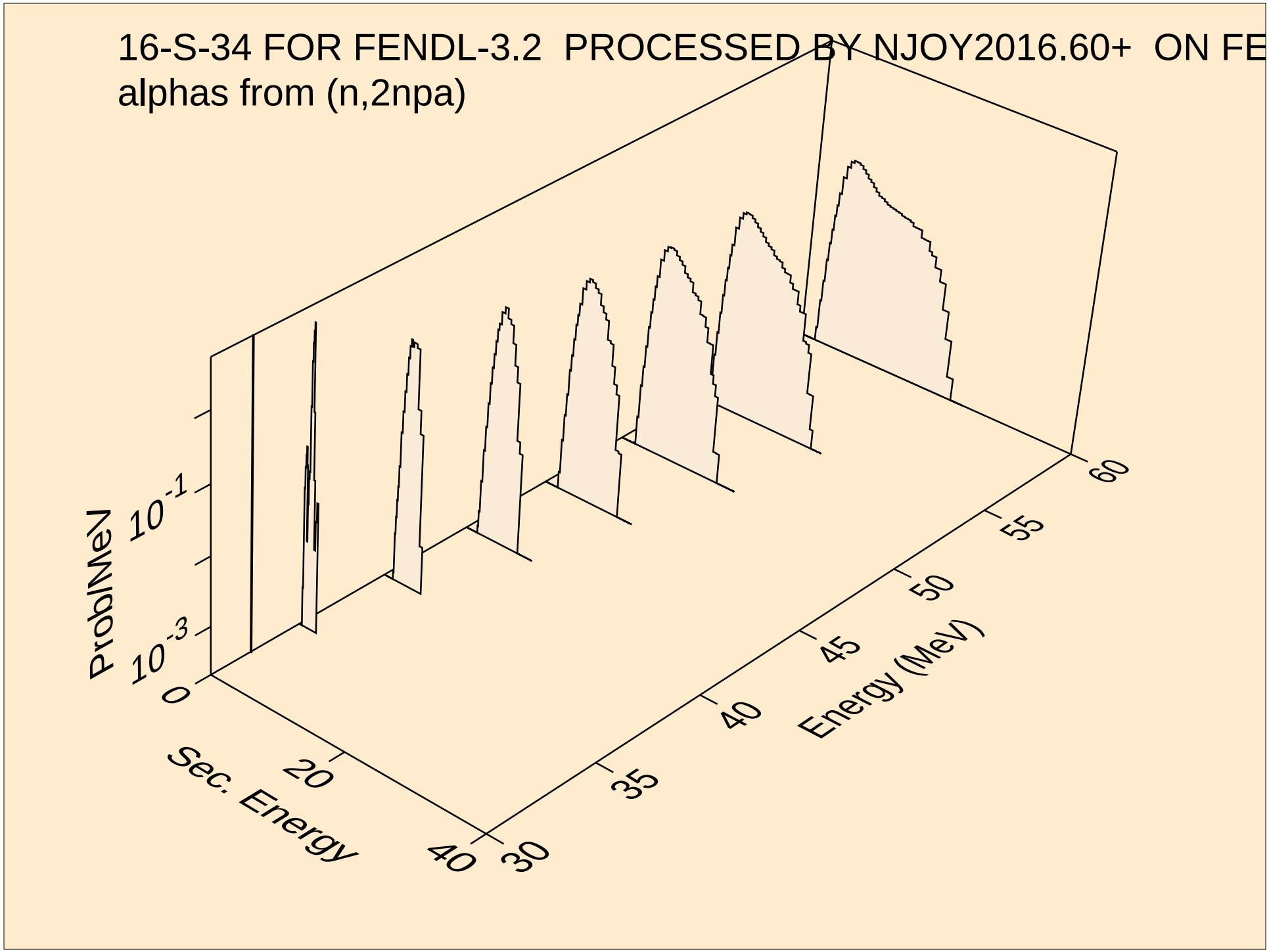

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,t2a)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
30
35
40
45
50
55
60
Sec. Energy
Energy (MeV)

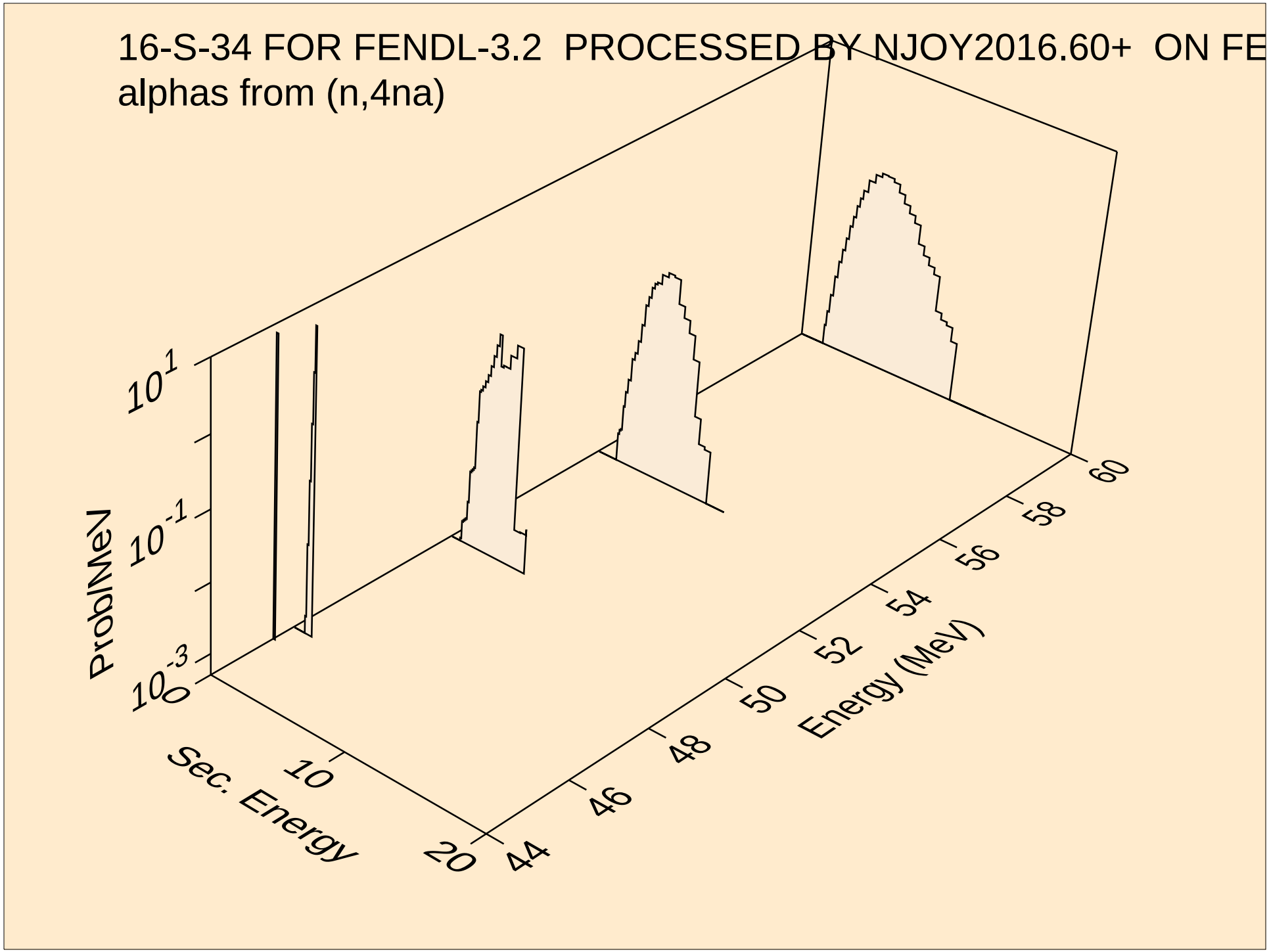

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,d2a)
Prob/MeV
10^{0}
10^{-2}
10^{-4}
0
10
20
30
Sec. Energy
35
40
45
50
55
60
Energy (MeV)

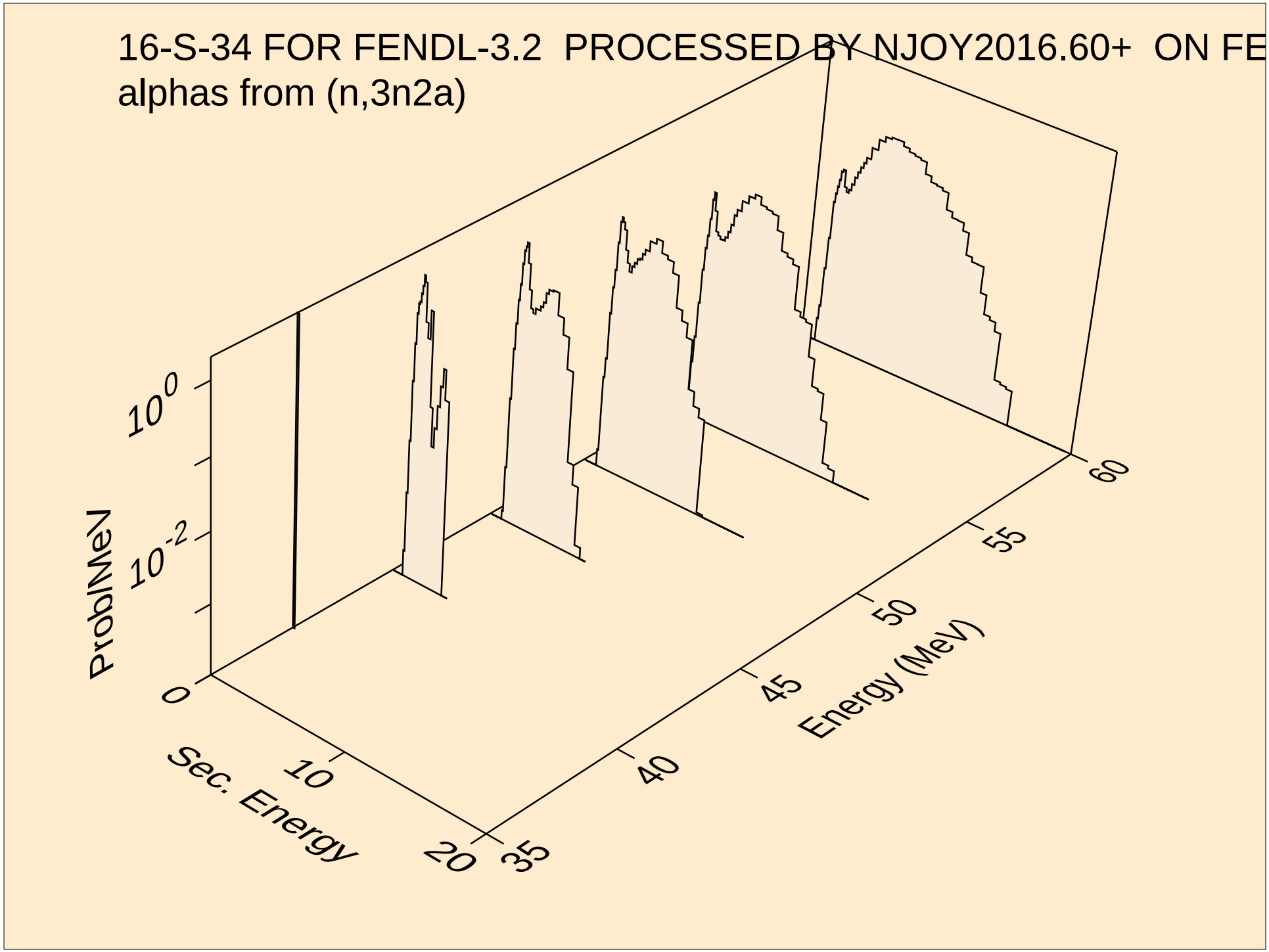

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,da)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
10
20
30
40
50
60
Energy (MeV)

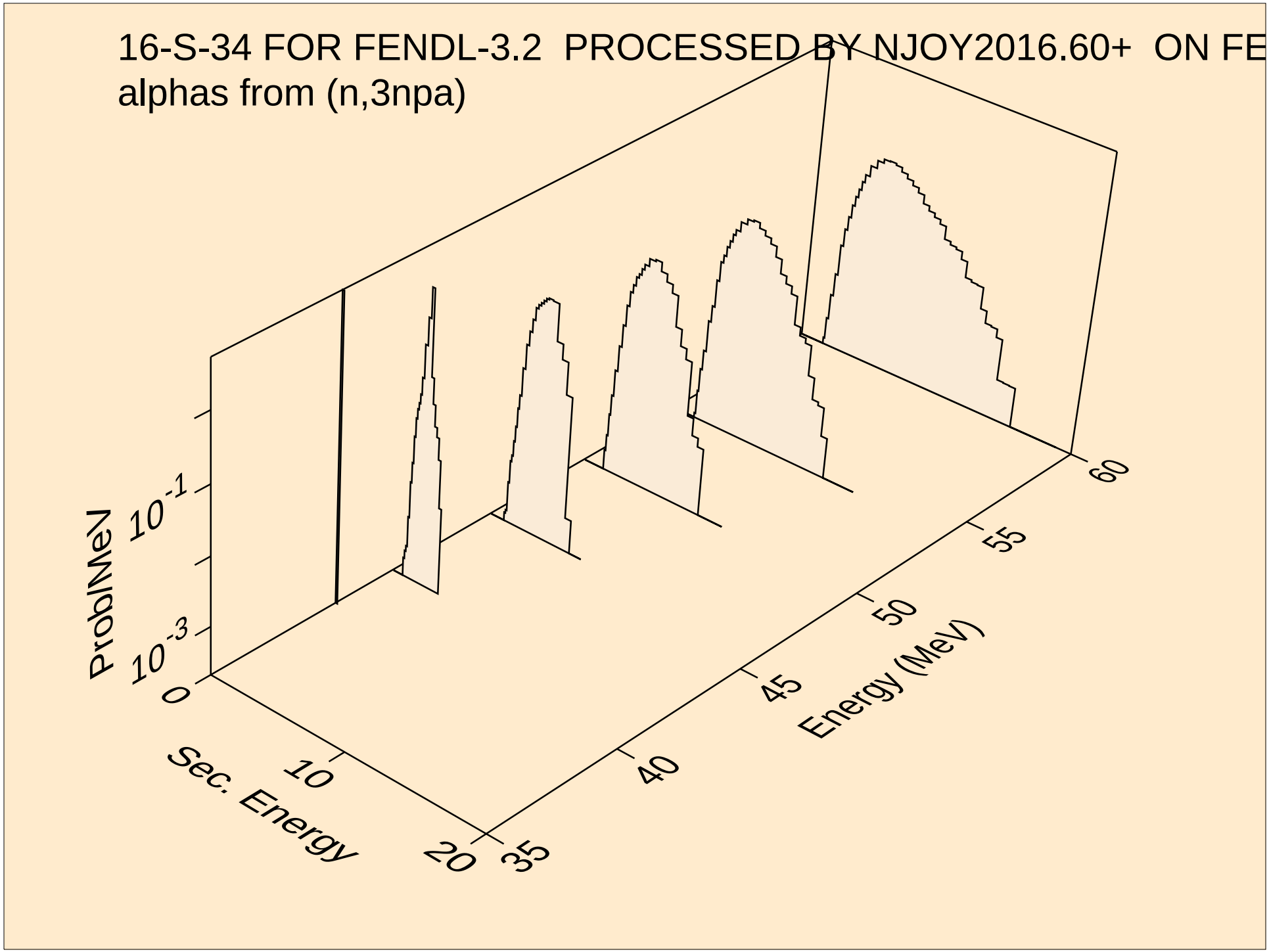

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,ta)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)

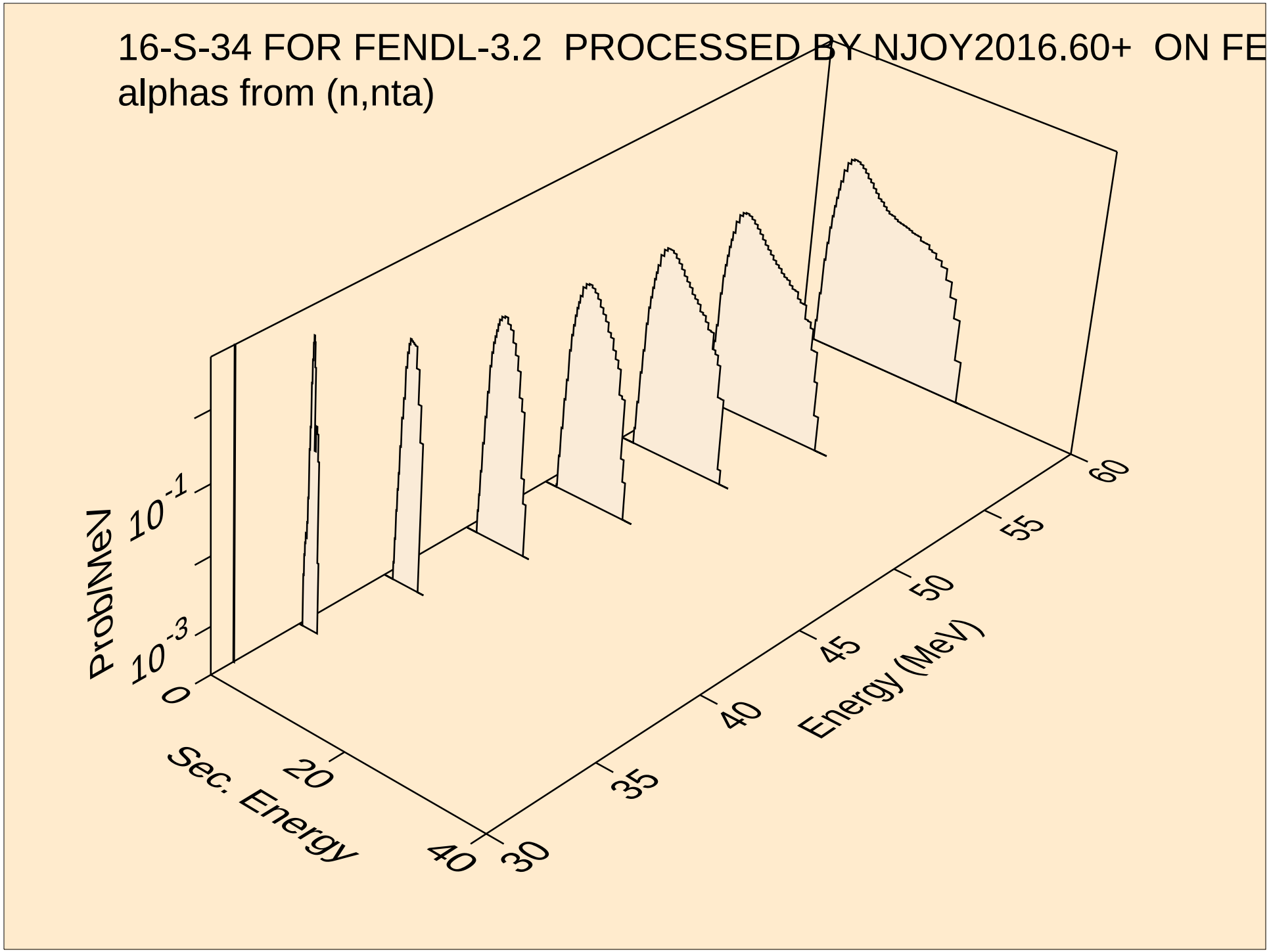

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,nda)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
20
40
25
30
35
40
45
50
55
60
Energy (MeV)

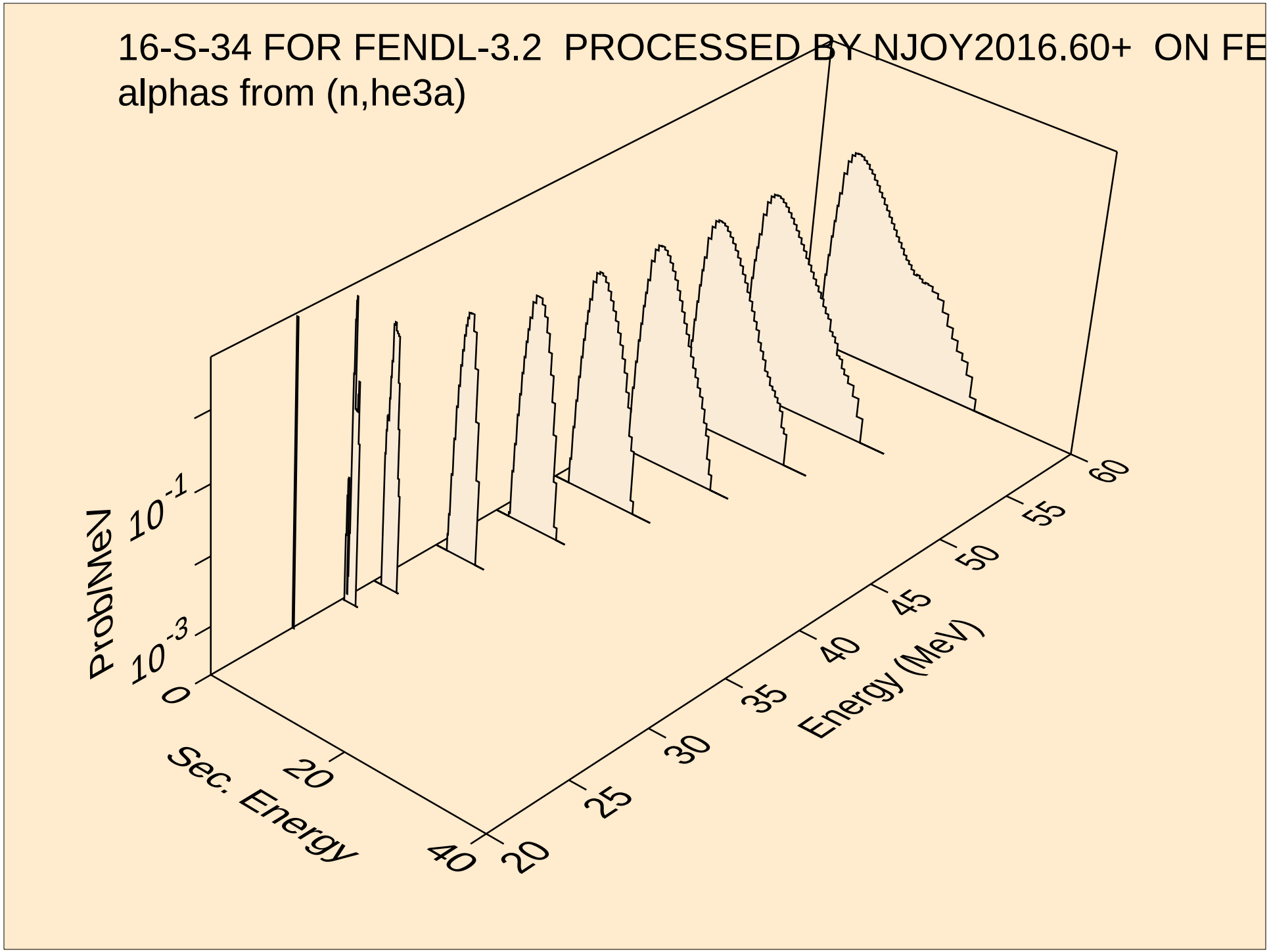

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,2npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
30
35
40
45
50
55
60
Energy (MeV)

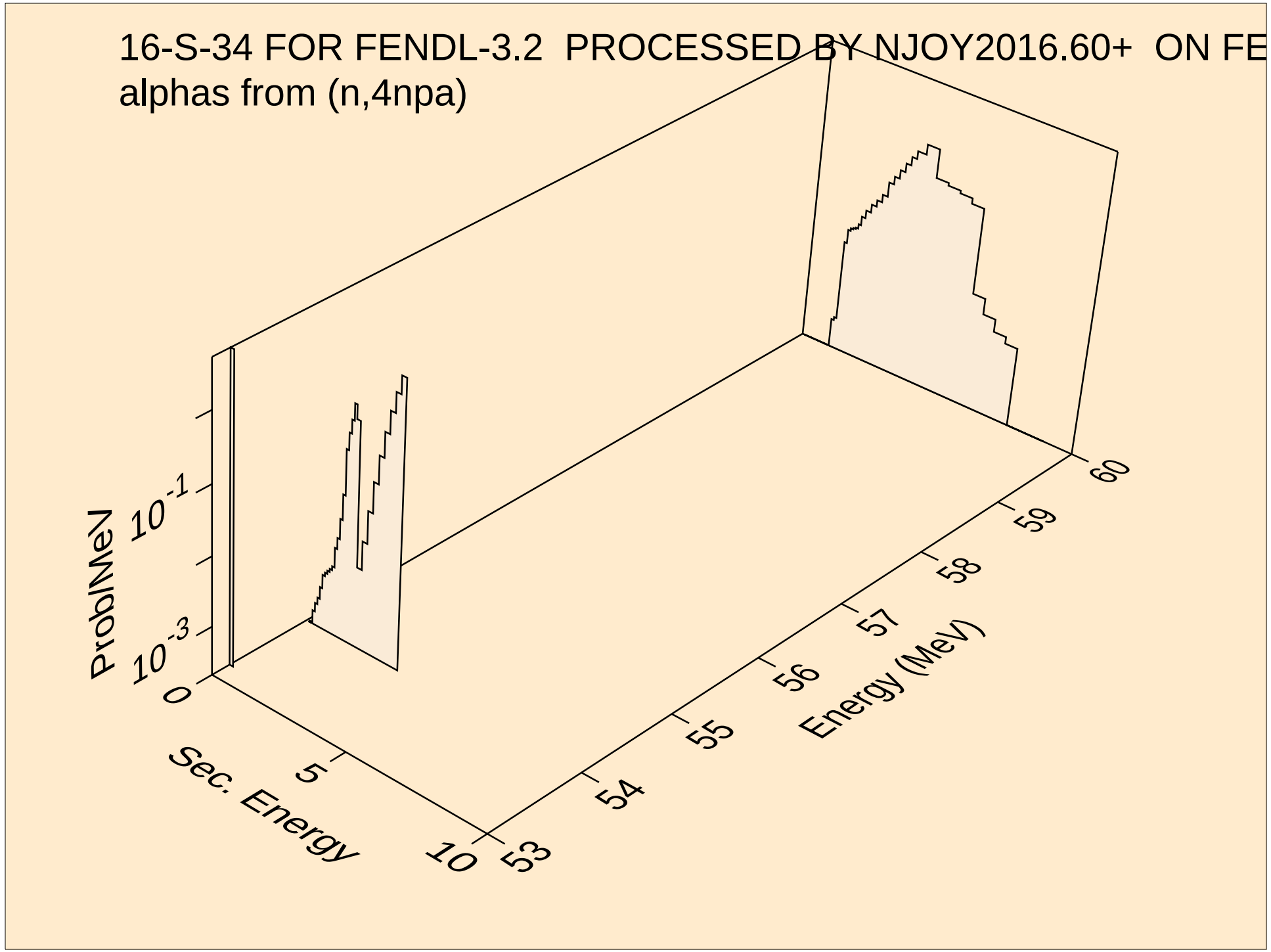

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,4na)
Prob/MeV
10^{1}
10^{-1}
10^{-3}
0
10
20
Sec. Energy
44
46
48
50
52
54
56
58
60
Energy (MeV)

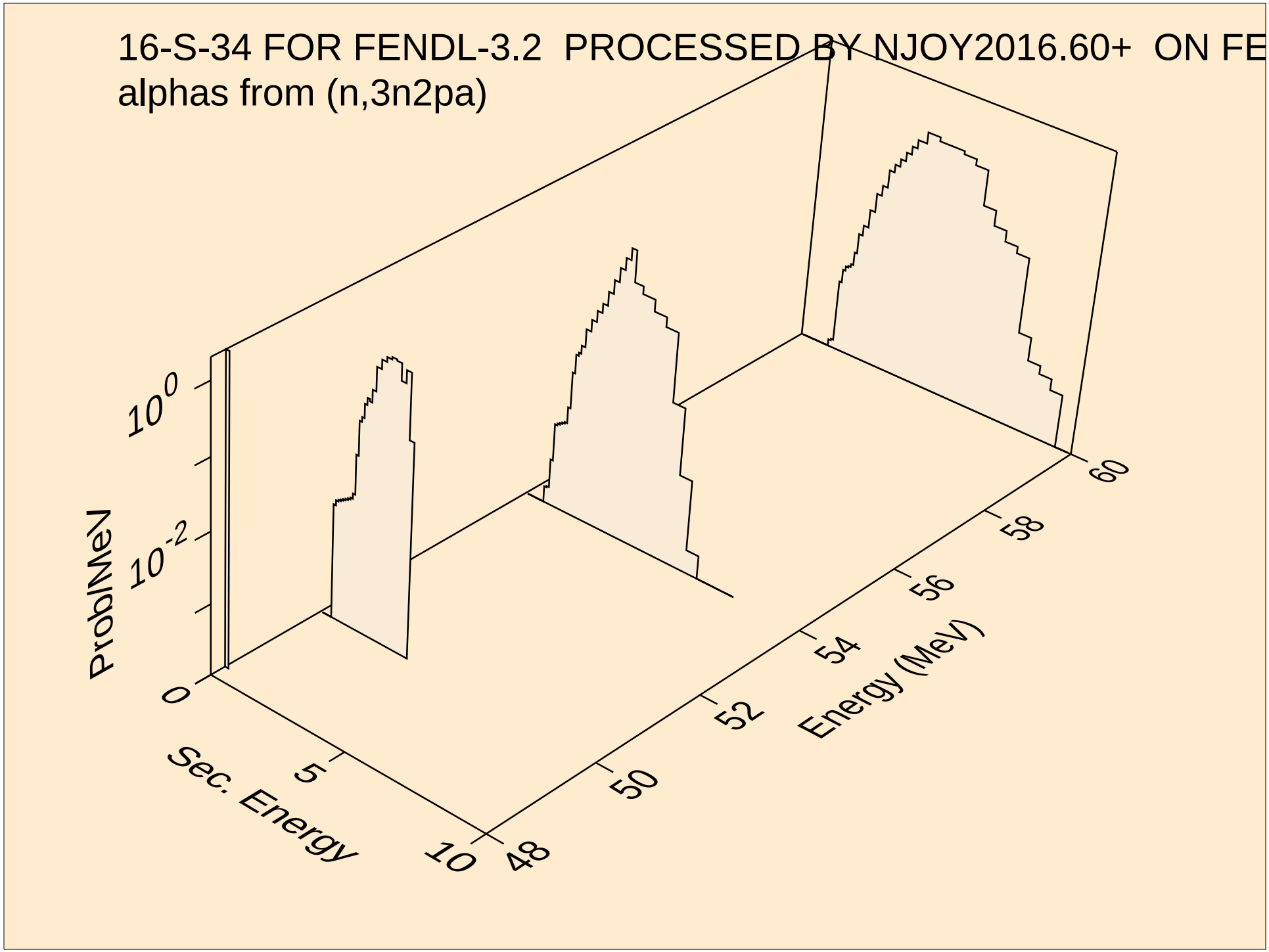

16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,3n2a)
Prob/MeV
10^{0}
10^{-2}
0
10
20
35
Sec. Energy
40
45
50
55
60
Energy (MeV)


16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,3npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
10
20
35
40
45
Energy (MeV)
50
55
60


16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,nta)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
30
35
40
45
50
55
60
Energy (MeV)


16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,he3a)
Prob/MeV
10-1
10-3
0
Sec. Energy
20
40
20
25
30
35
40
45
50
55
60
Energy (MeV)


16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,4npa)
Prob/MeV
10-1
10-3
0
Sec. Energy
5
10
53
54
55
56
57
58
59
60
Energy (MeV)


16-S-34 FOR FENDL-3.2 PROCESSED BY NJOY2016.60+ ON FE
alphas from (n,3n2pa)
Prob/MeV
10^{0}
10^{-2}
0
Sec. Energy
5
10
48
50
52
54
56
58
60
Energy (MeV)