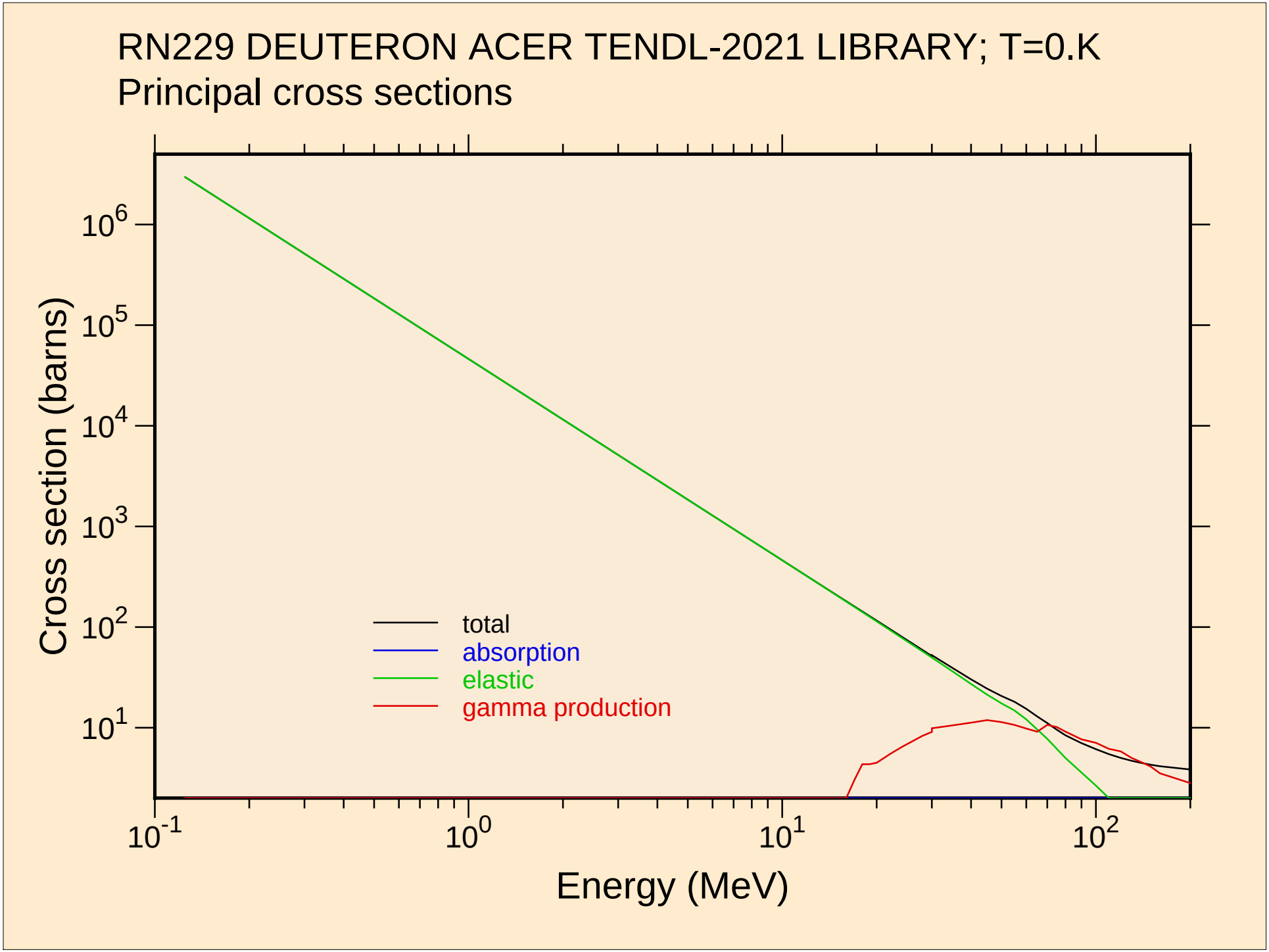
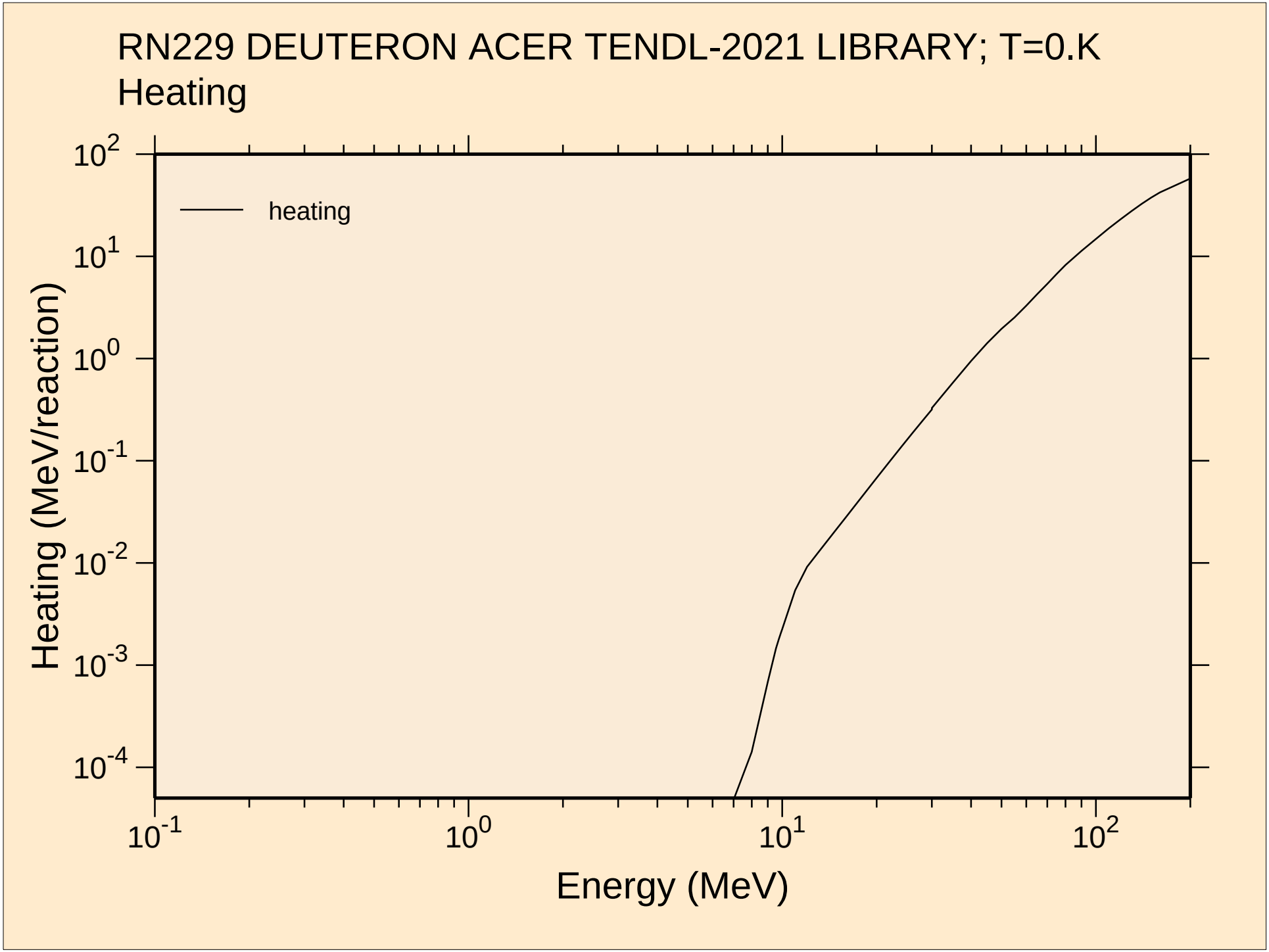
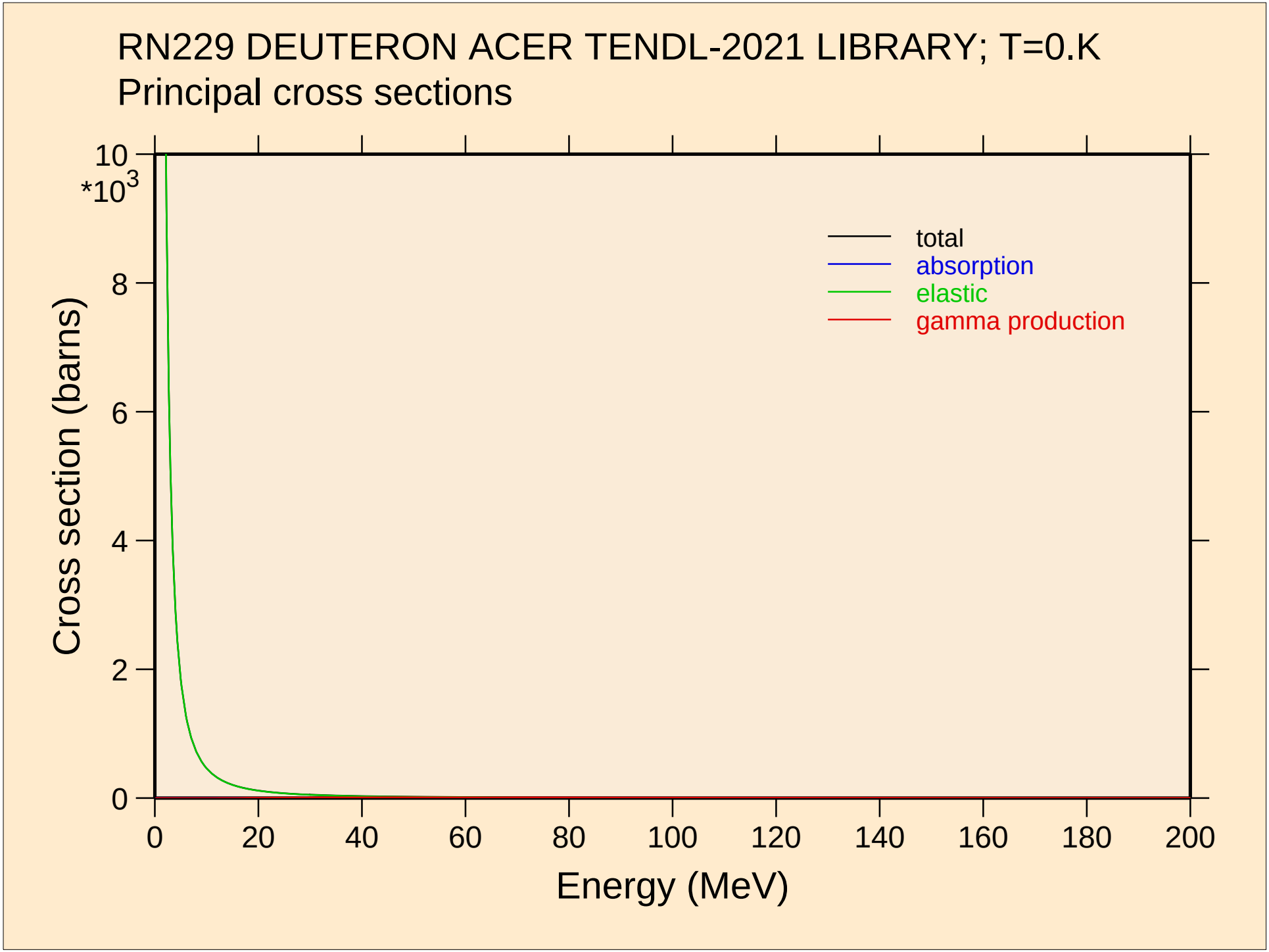
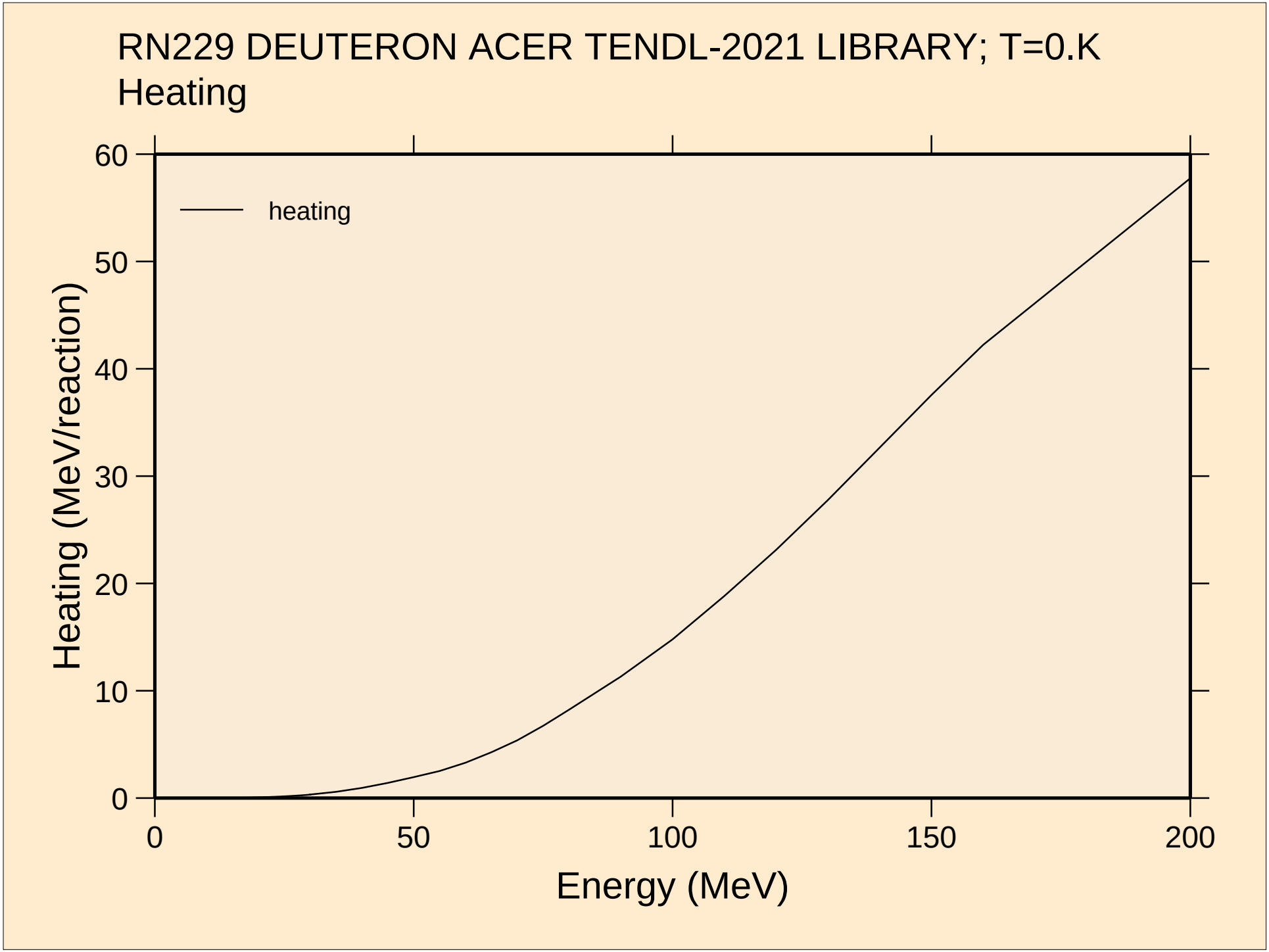
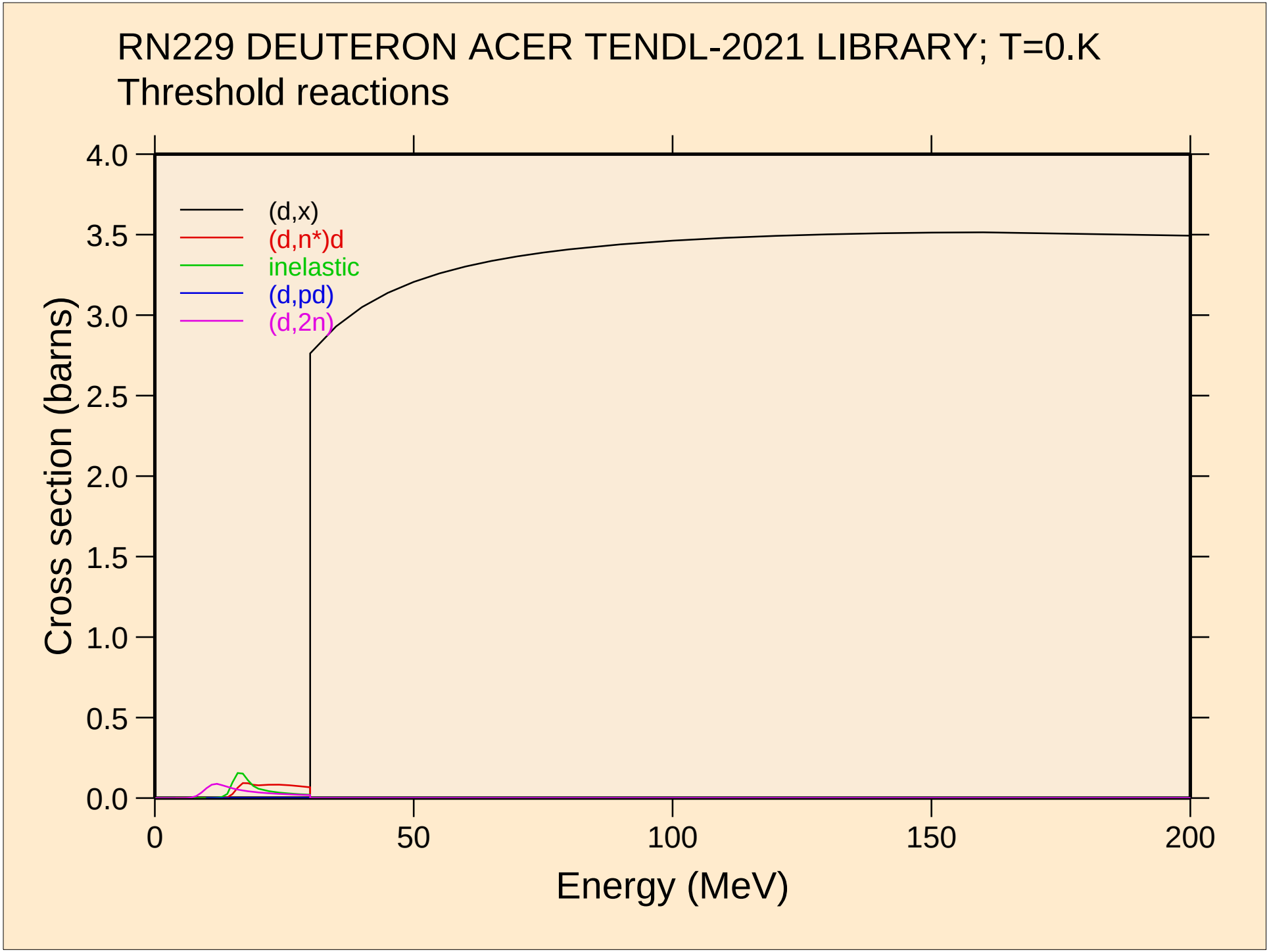
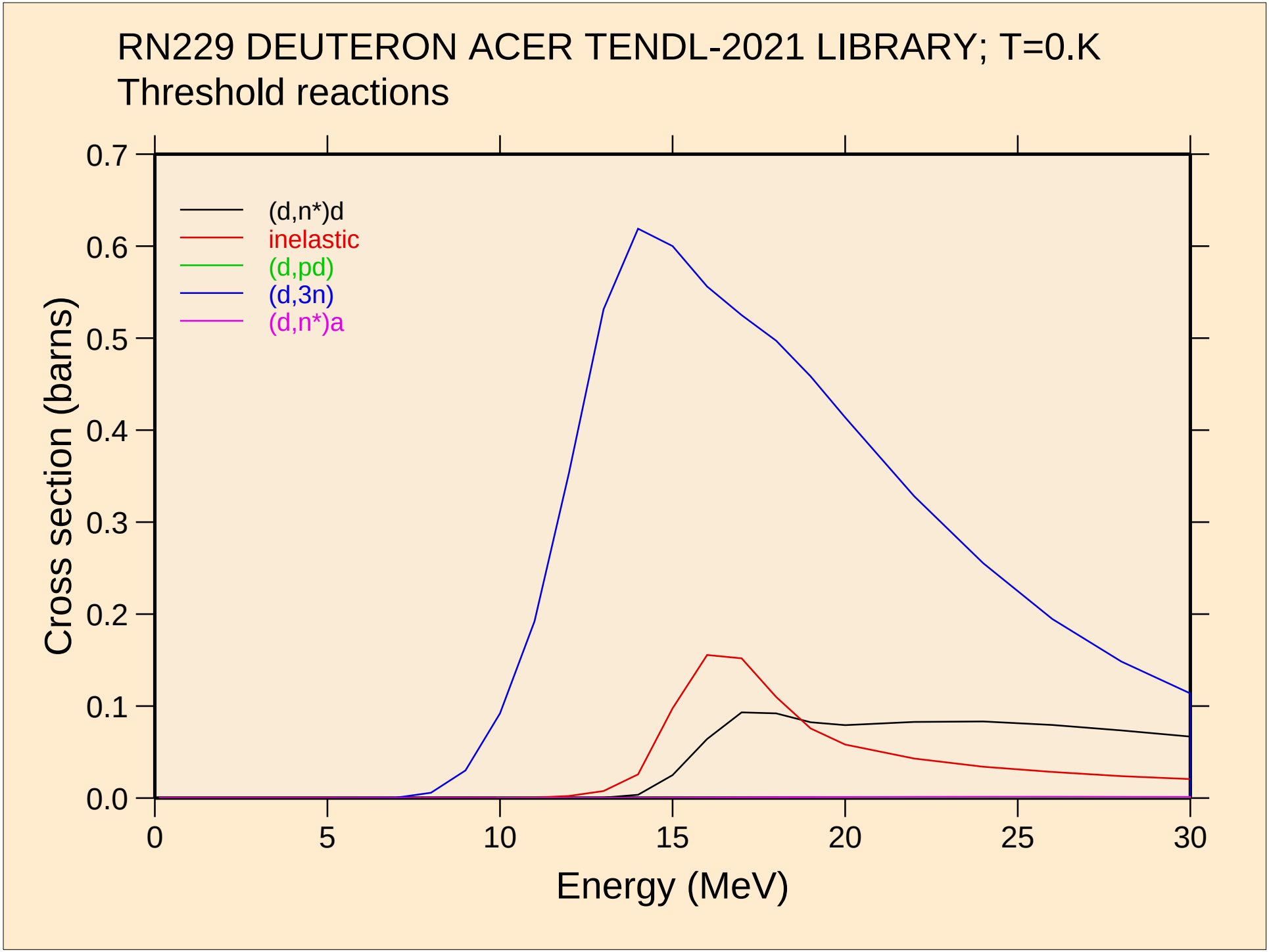

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
10^6
10^5
10^4
10^3
10^2
10^1
10^{-1}
10^0
10^1
10^2
Energy (MeV)
total
absorption
elastic
gamma production

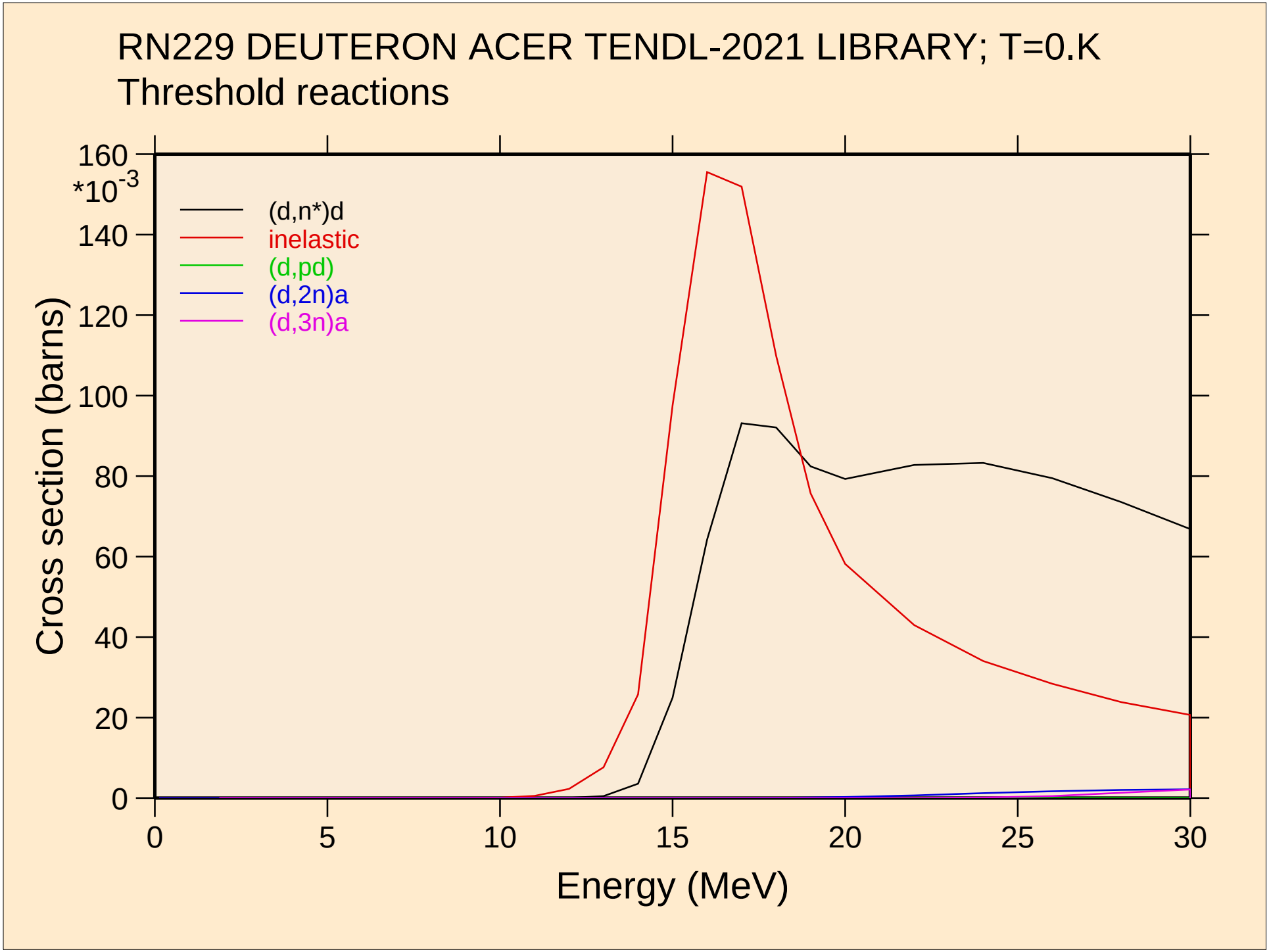

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^-4
10^-1
10^0
10^1
10^2

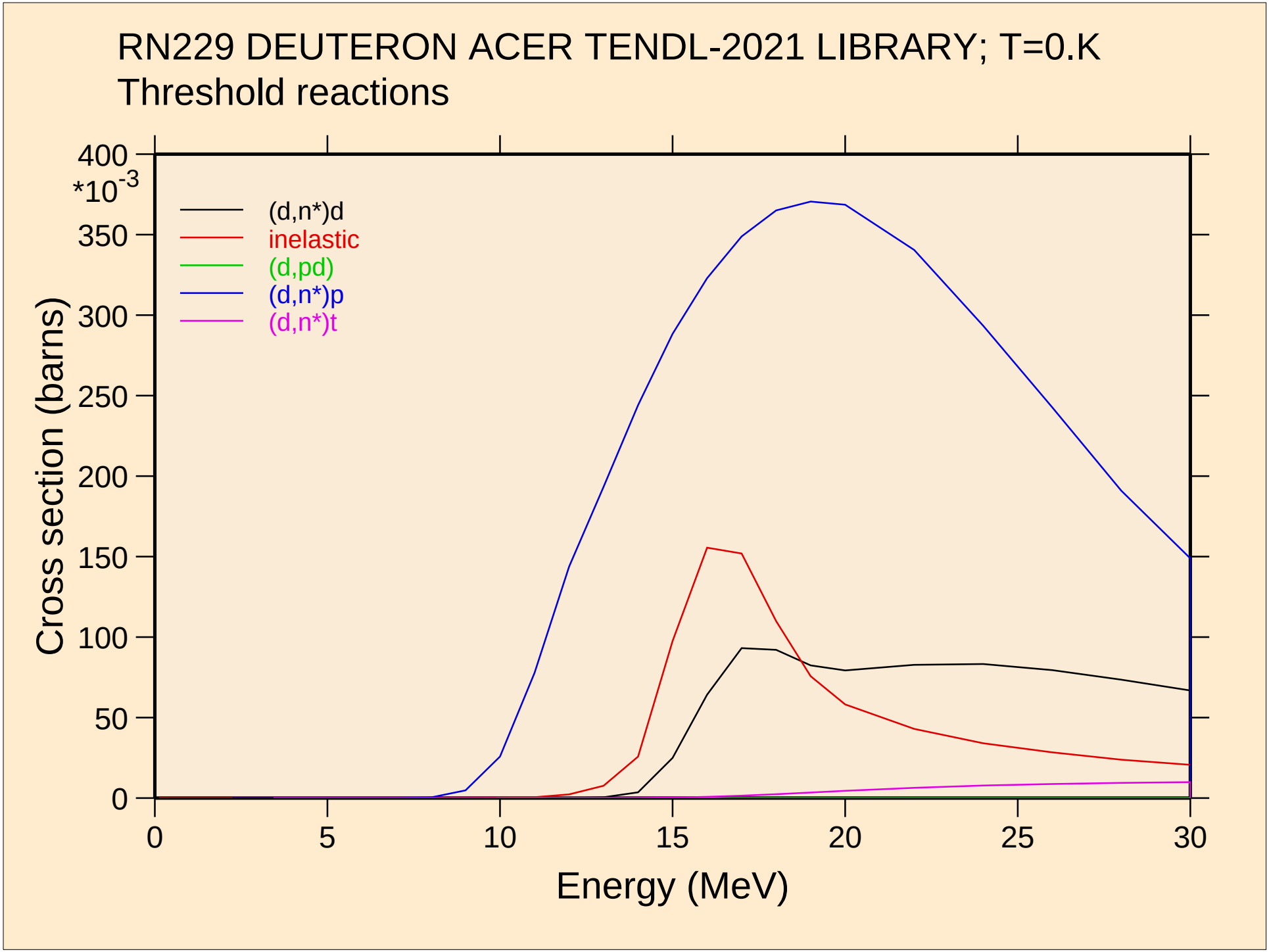

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Principal cross sections
Cross section (barns)
*10^3
10
8
6
4
2
0
0
20
40
60
80
100
120
140
160
180
200
Energy (MeV)
total
absorption
elastic
gamma production

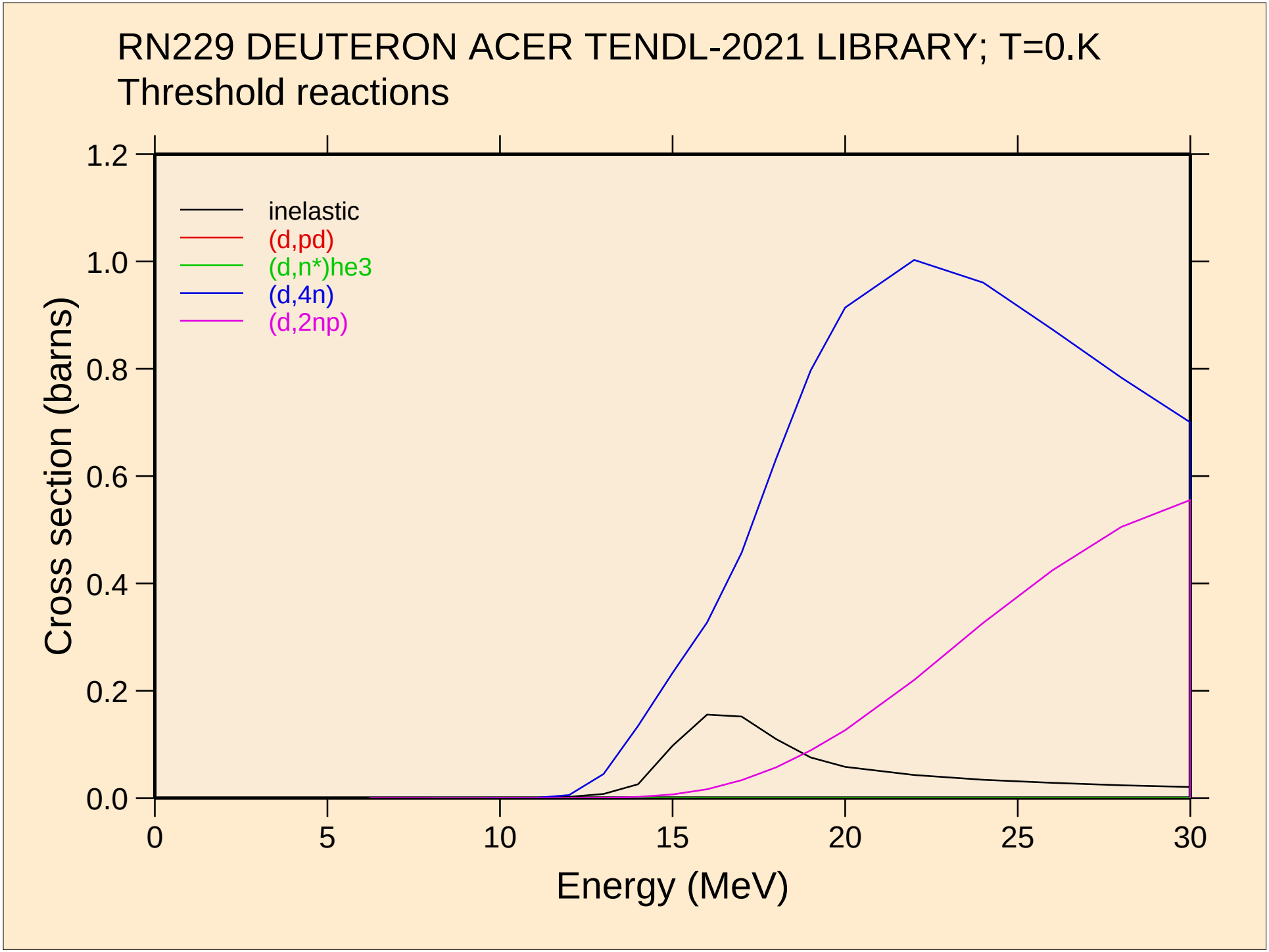

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Heating
heating
Heating (MeV/reaction)
Energy (MeV)
0
10
20
30
40
50
60
0
50
100
150
200

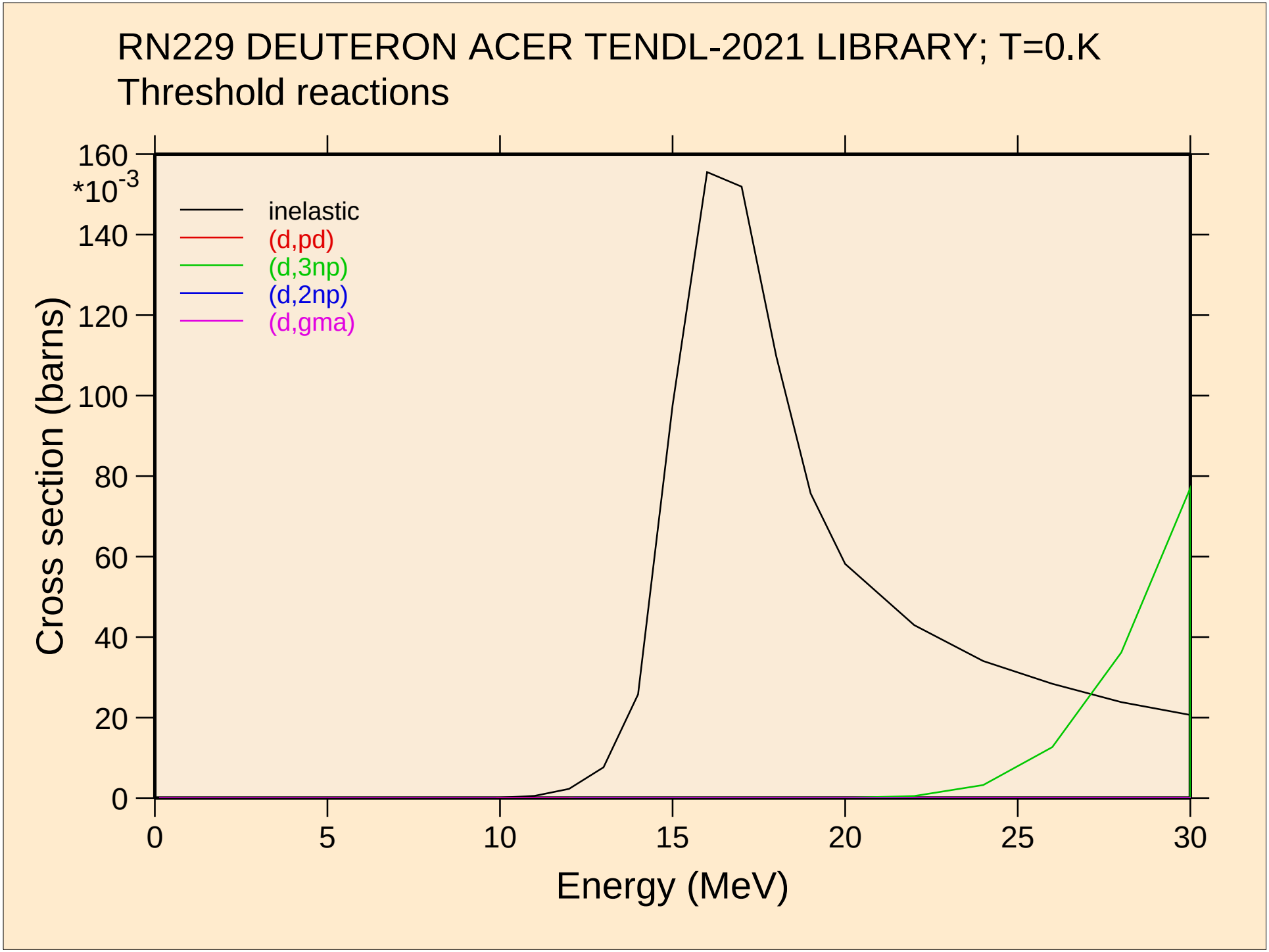

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
(d,x)
(d,n*)d
inelastic
(d,pd)
(d,2n)
Cross section (barns)
Energy (MeV)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
0
50
100
150
200

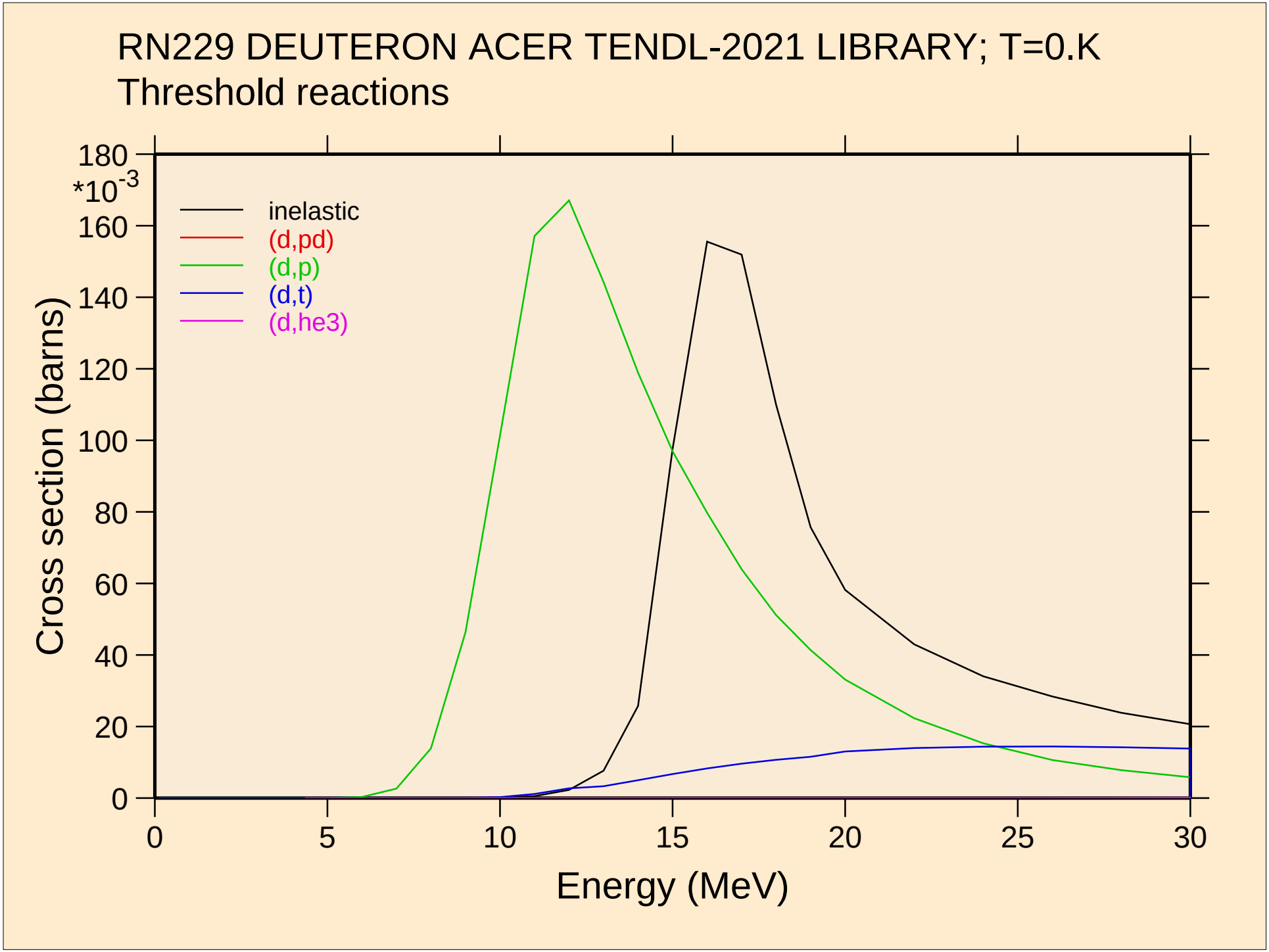

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
(d,n*)d
inelastic
(d,pd)
(d,3n)
(d,n*)a
Cross section (barns)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0
5
10
15
20
25
30
Energy (MeV)

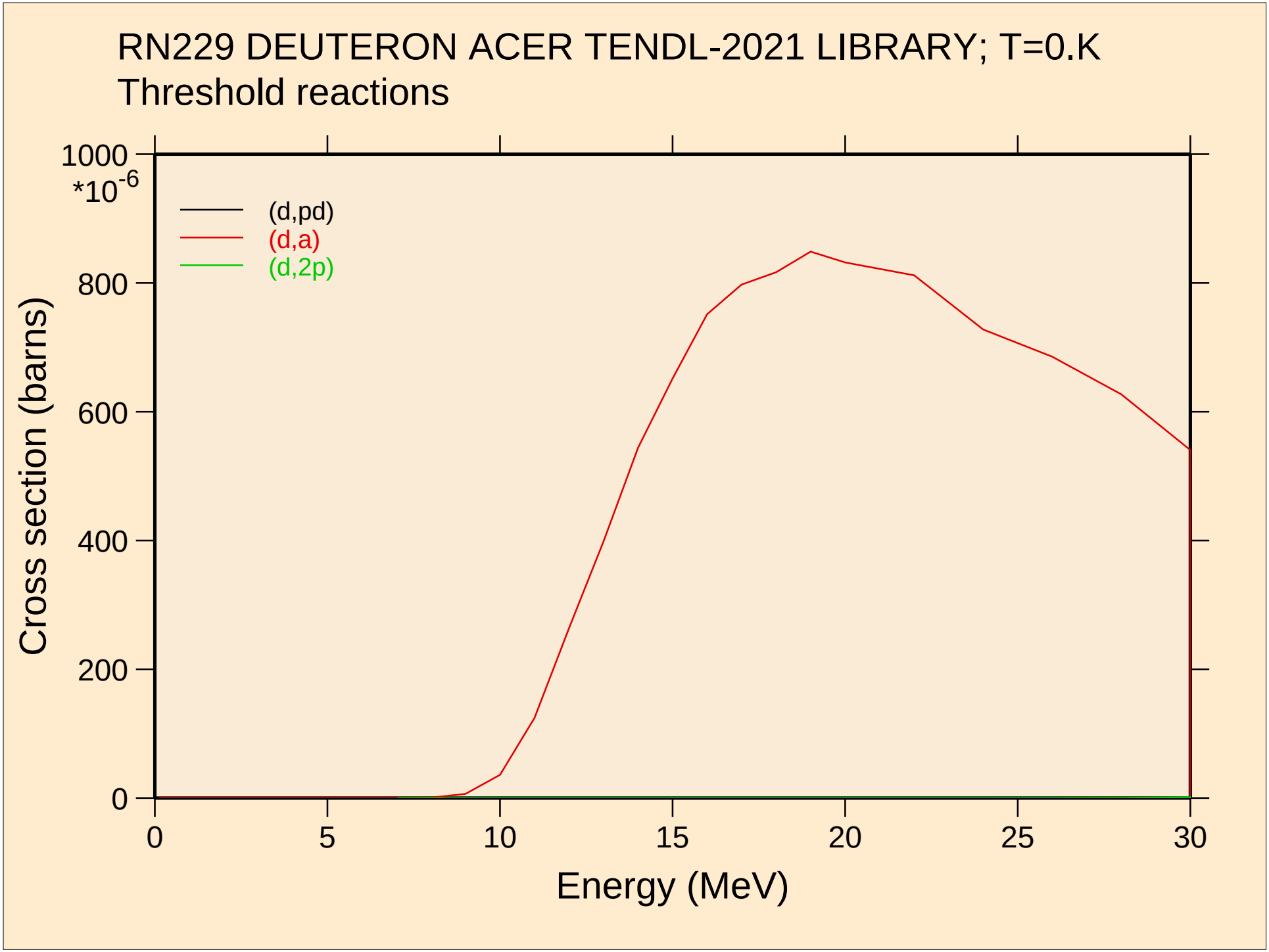

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
160
*10-3
140
120
100
80
60
40
20
0
Cross section (barns)
(d,n*)d
inelastic
(d,pd)
(d,2n)a
(d,3n)a
0
5
10
15
20
25
30
Energy (MeV)

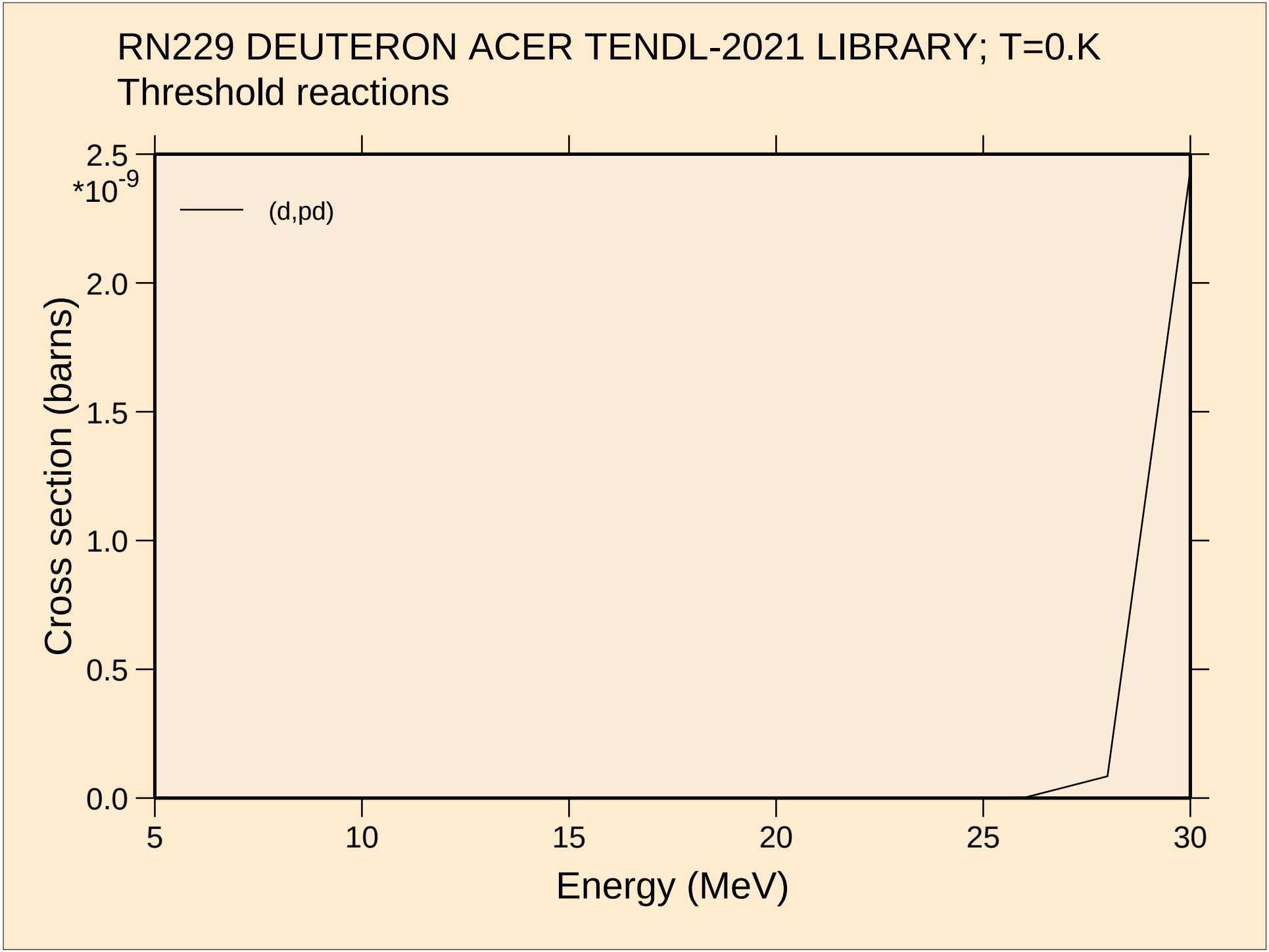

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
400
*10-3
350
300
250
200
150
100
50
0
Cross section (barns)
(d,n*)d
inelastic
(d,pd)
(d,n*)p
(d,n*)t
0
5
10
15
20
25
30
Energy (MeV)

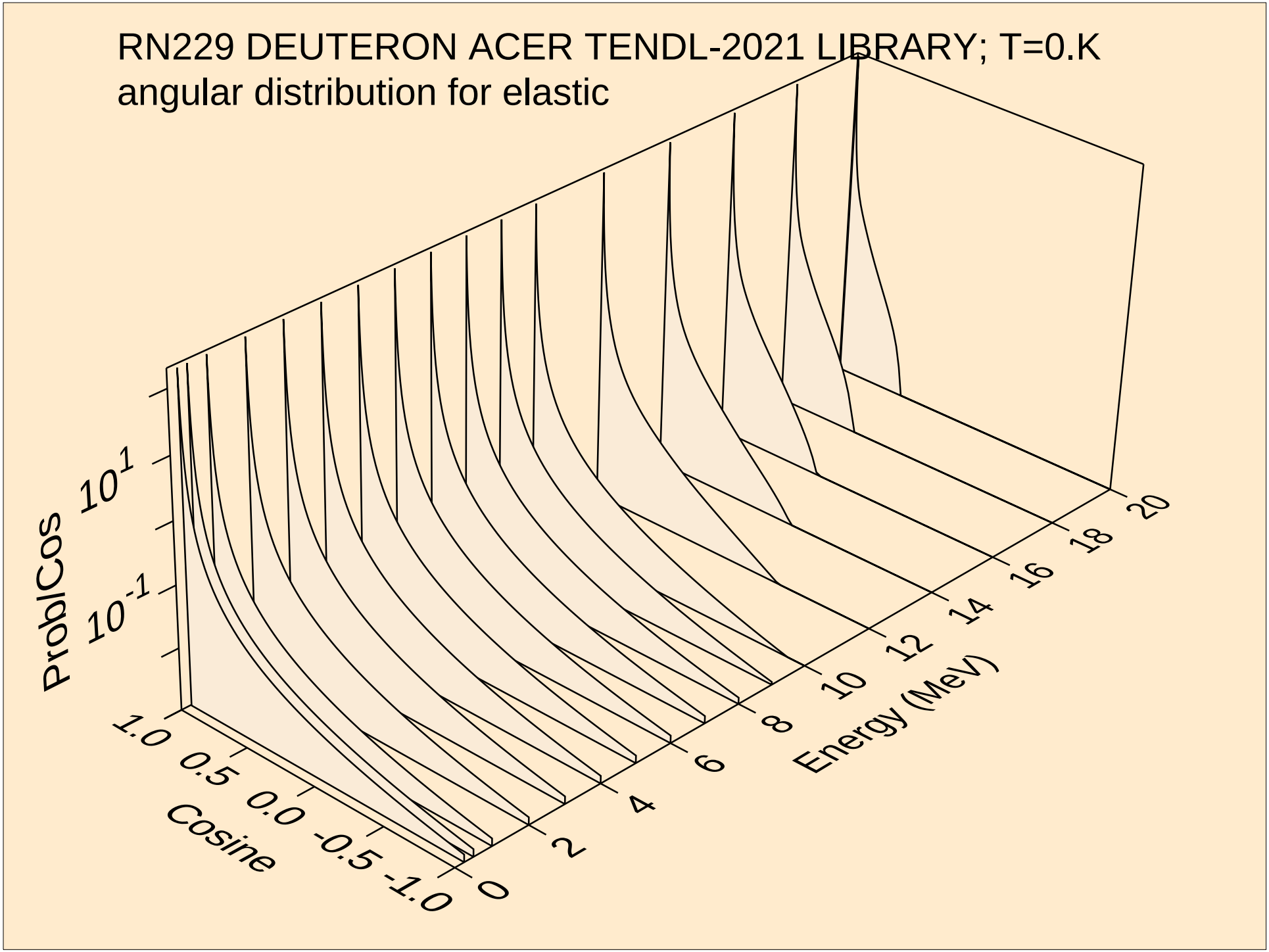

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
inelastic
(d,pd)
(d,n*)he3
(d,4n)
(d,2np)
Cross section (barns)
Energy (MeV)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20
25
30

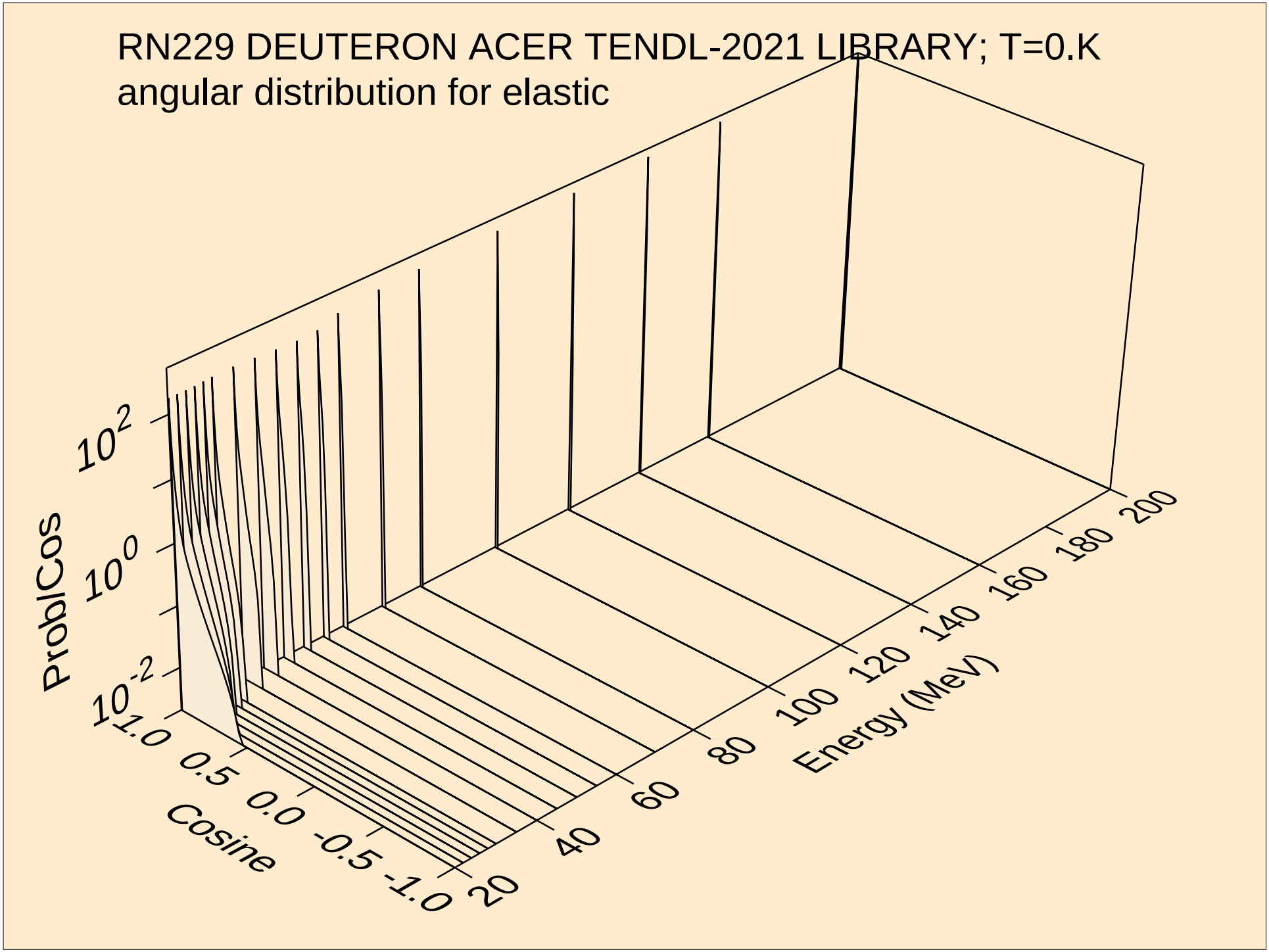

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
*10-3
160
140
120
100
80
60
40
20
0
Cross section (barns)
inelastic
(d,pd)
(d,3np)
(d,2np)
(d,gma)
0
5
10
15
20
25
30
Energy (MeV)

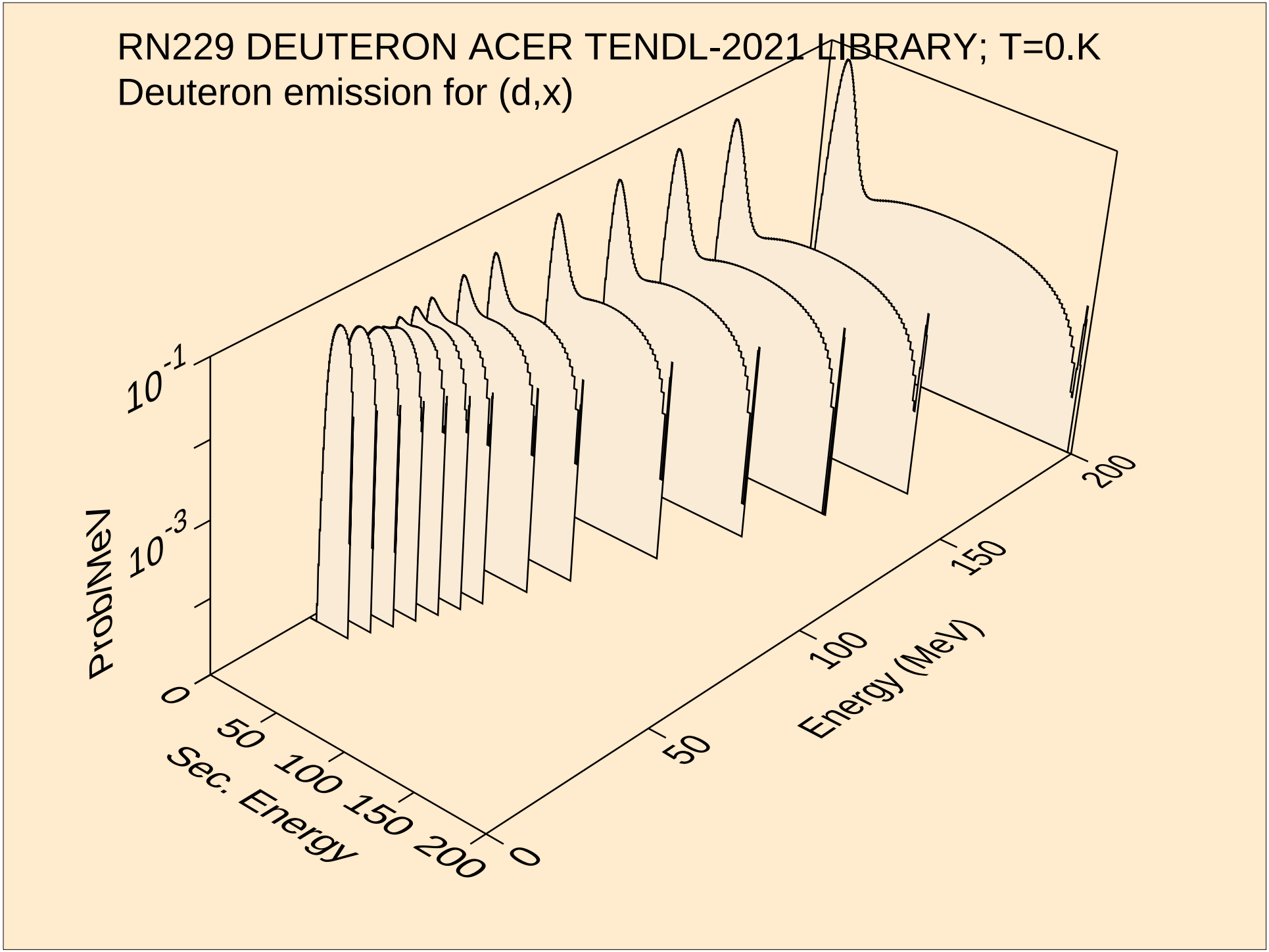

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
*10-3
180
160
140
120
100
80
60
40
20
0
Cross section (barns)
inelastic
(d,pd)
(d,p)
(d,t)
(d,he3)
0
5
10
15
20
25
30
Energy (MeV)

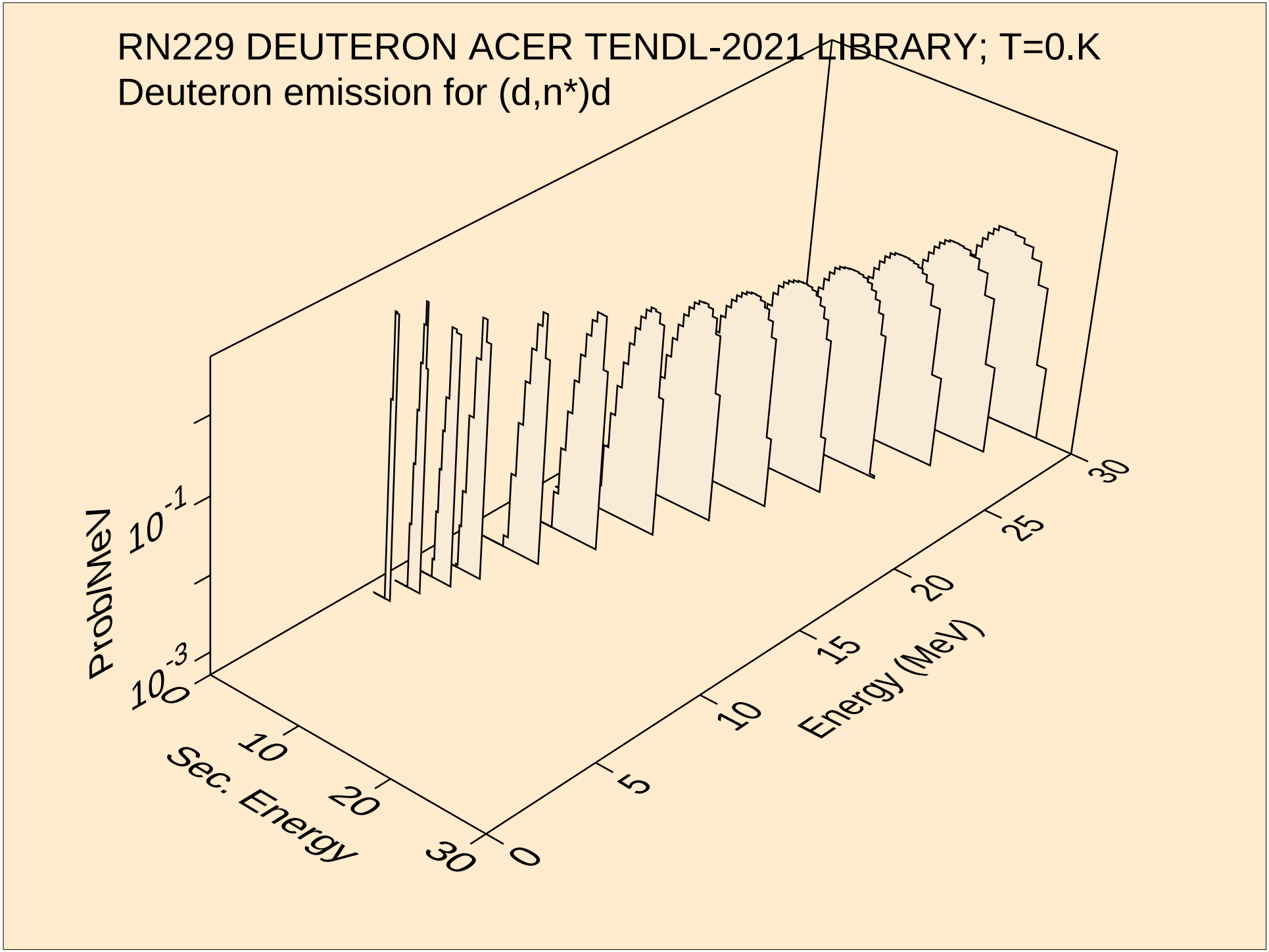

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
1000
*10-6
800
600
400
200
0
(d,pd)
(d,a)
(d,2p)
Cross section (barns)
0
5
10
15
20
25
30
Energy (MeV)

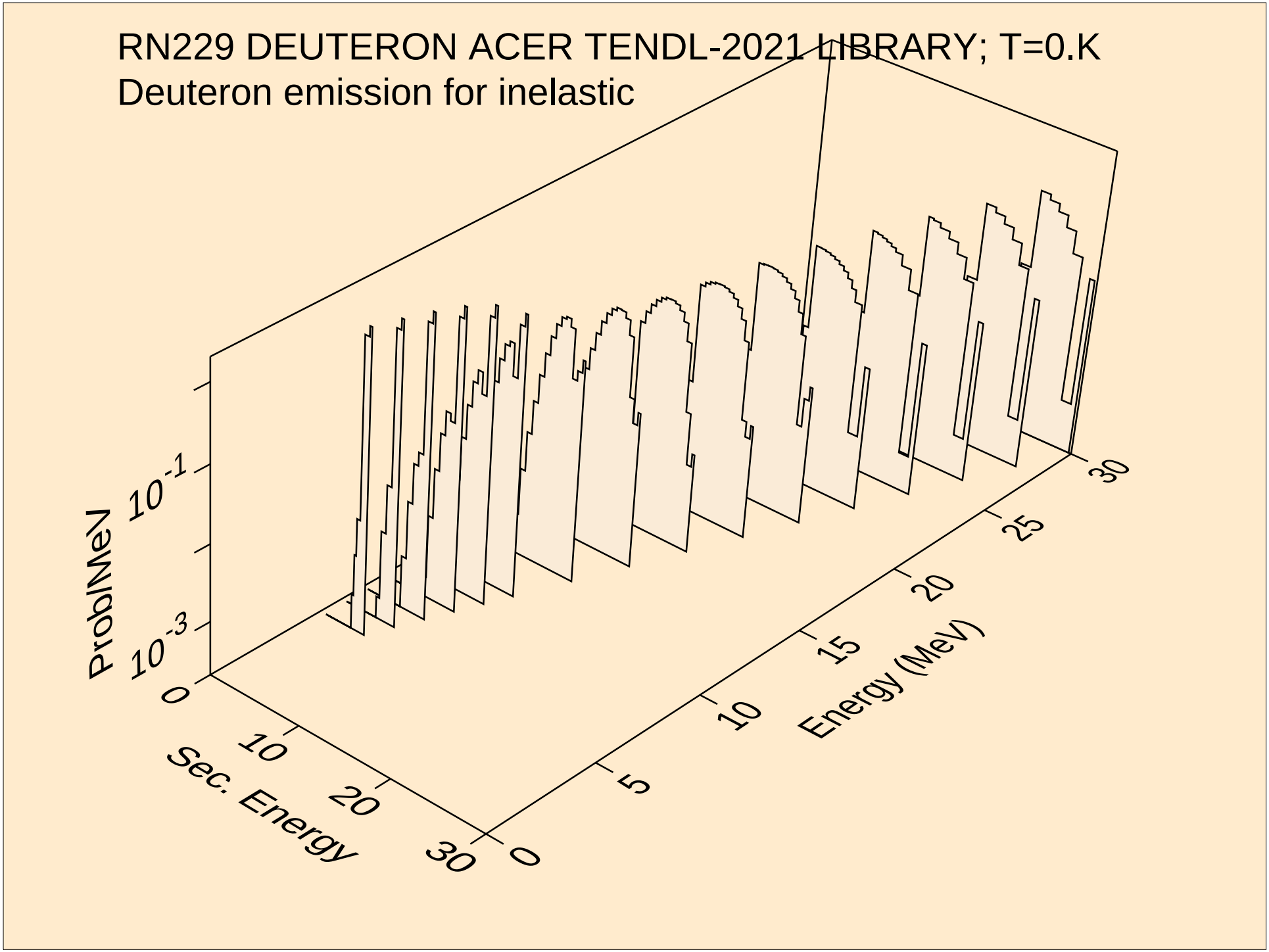

RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Threshold reactions
2.5
*10-9
2.0
1.5
1.0
0.5
0.0
(d,pd)
Cross section (barns)
5
10
15
20
25
30
Energy (MeV)


RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^1
10^-1
1.0
0.5
0.0
-0.5
-1.0
Cosine
0
2
4
6
8
10
12
14
16
18
20
Energy (MeV)


RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
angular distribution for elastic
ProbICos
10^{2}
10^{0}
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)


RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Deuteron emission for (d,x)
Prob/MeV
10-1
10-3
0
Sec. Energy
50
100
150
200
0
50
100
150
200
Energy (MeV)


RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Deuteron emission for (d,n*)d
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)


RN229 DEUTERON ACER TENDL-2021 LIBRARY; T=0.K
Deuteron emission for inelastic
Prob/MeV
10-1
10-3
0
10
20
30
Sec. Energy
0
5
10
15
20
25
30
Energy (MeV)