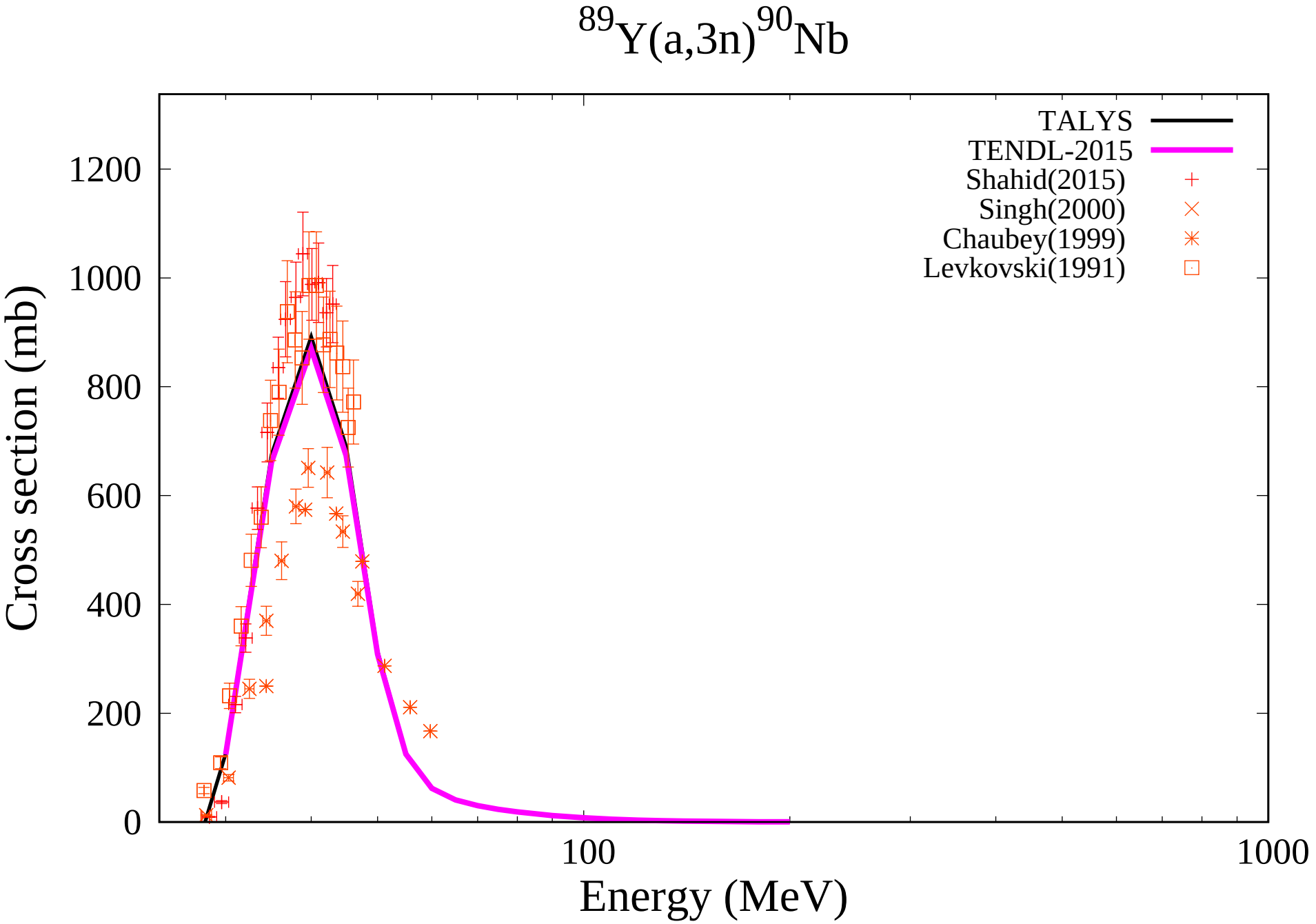
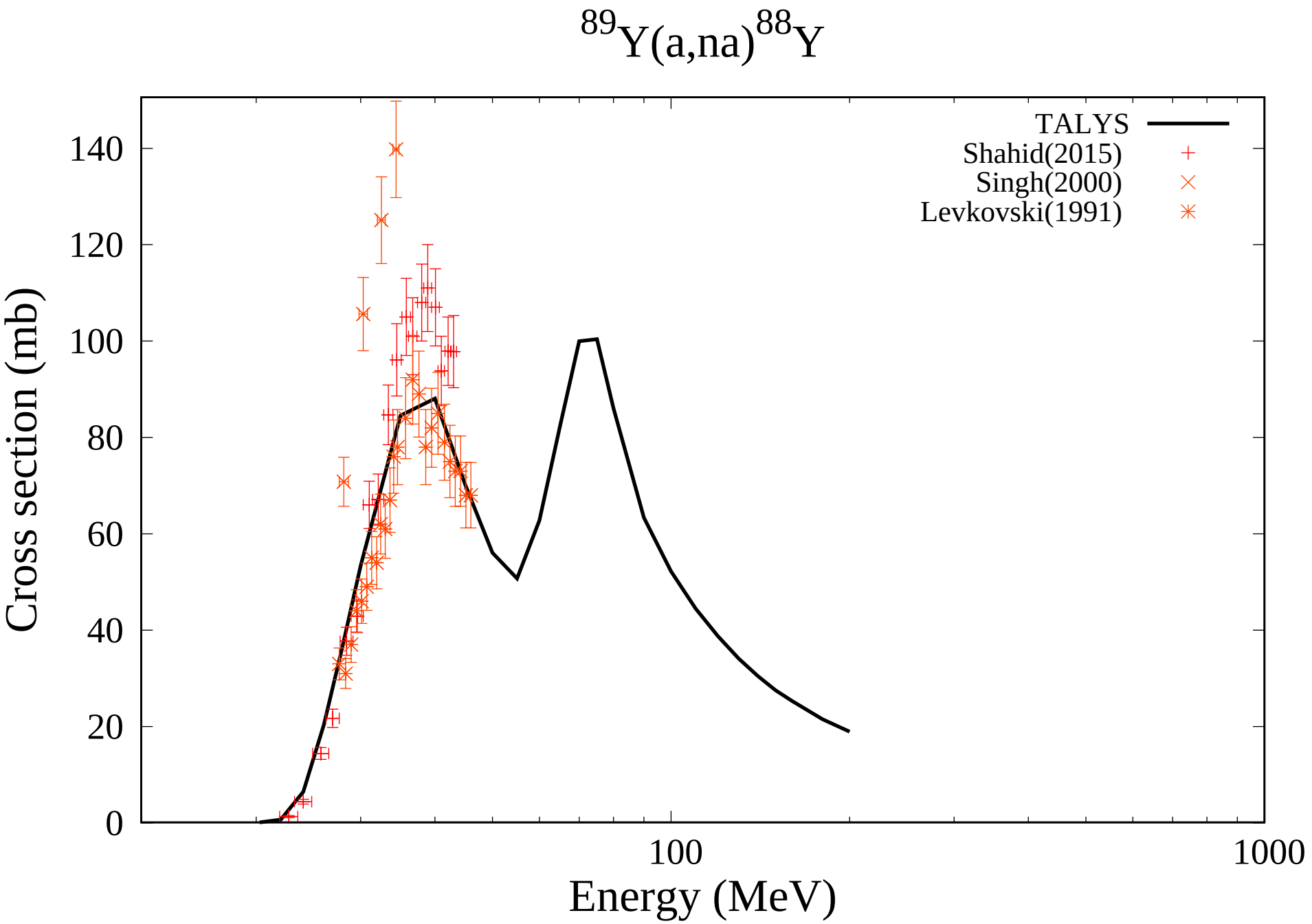
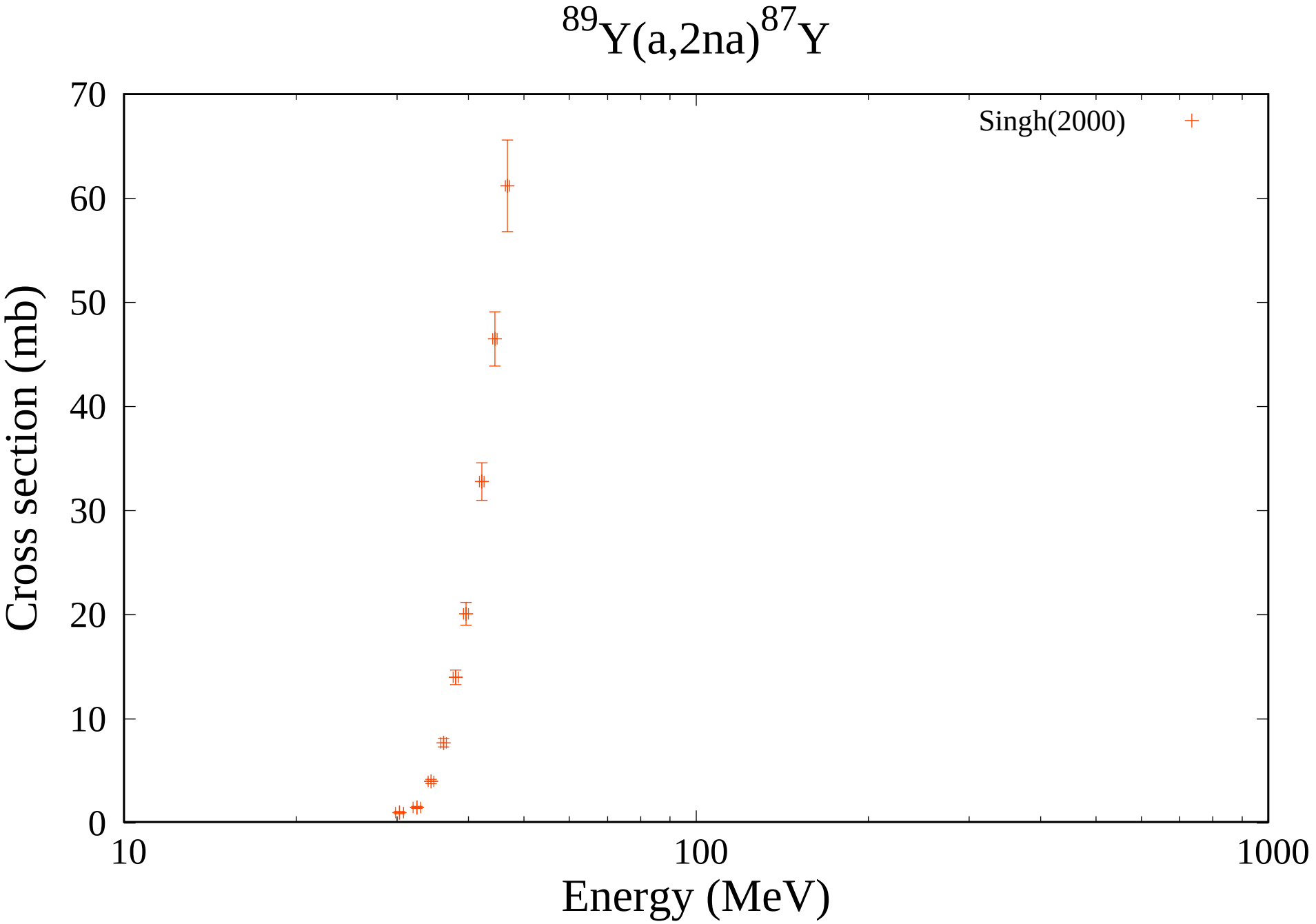
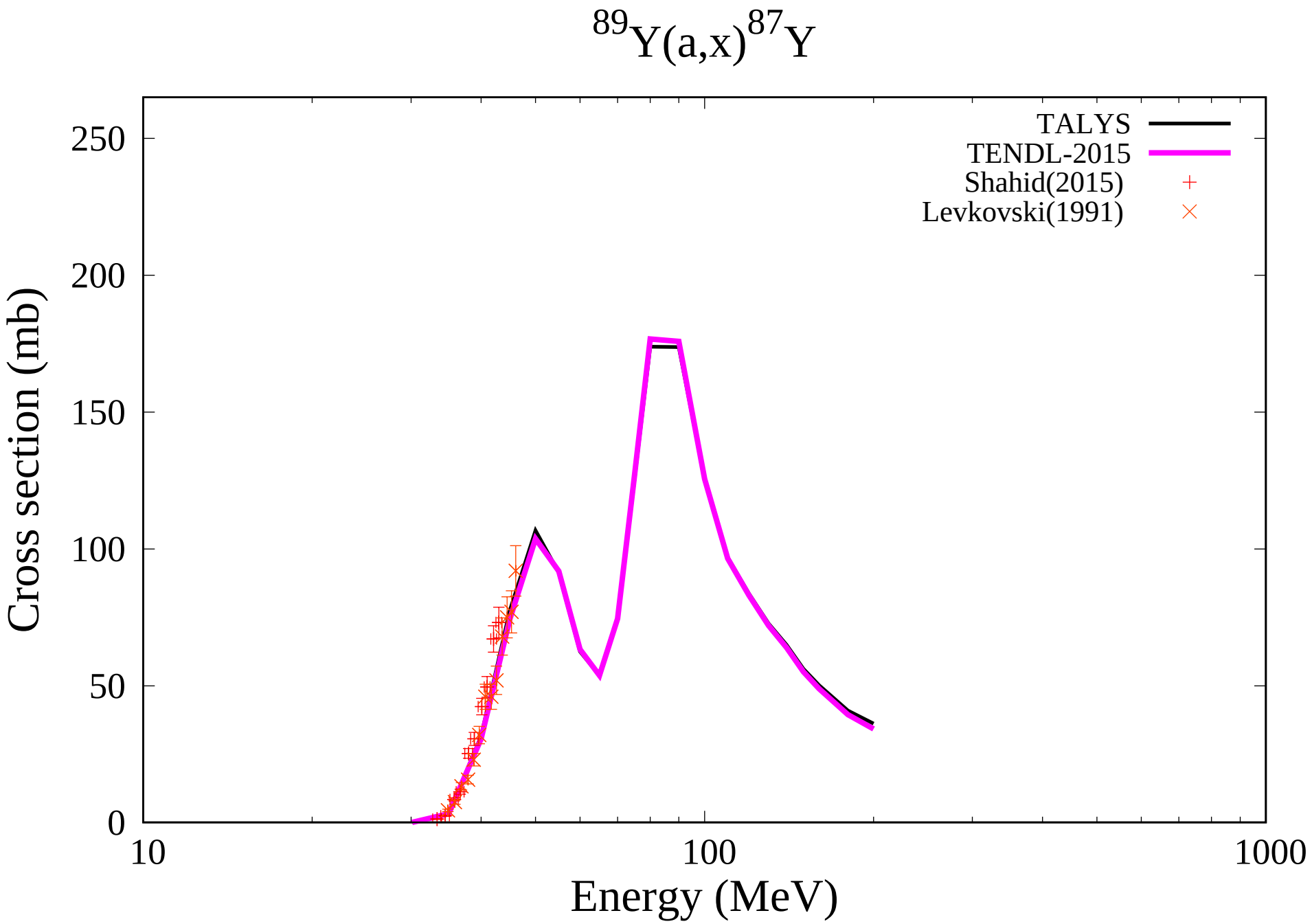
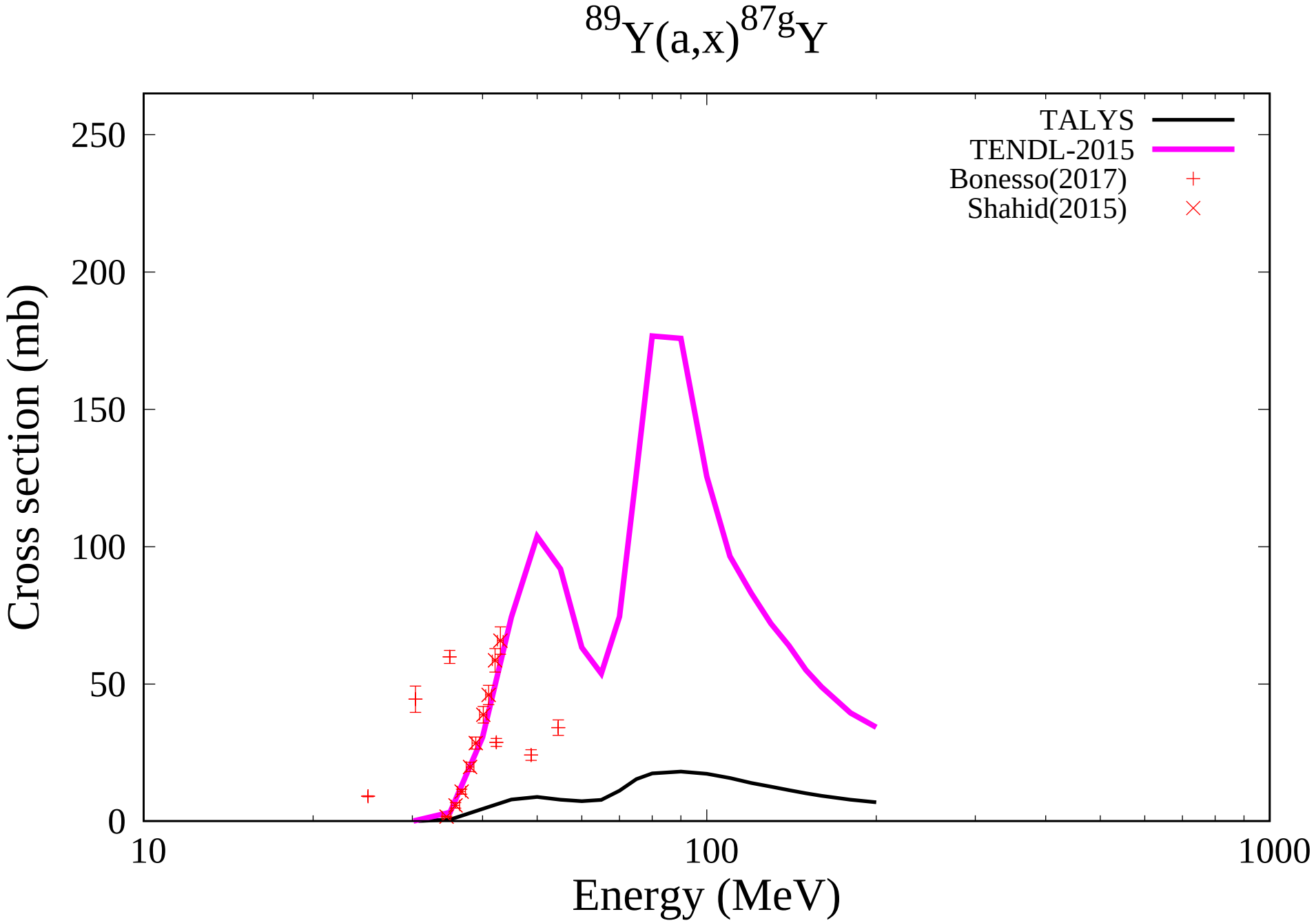
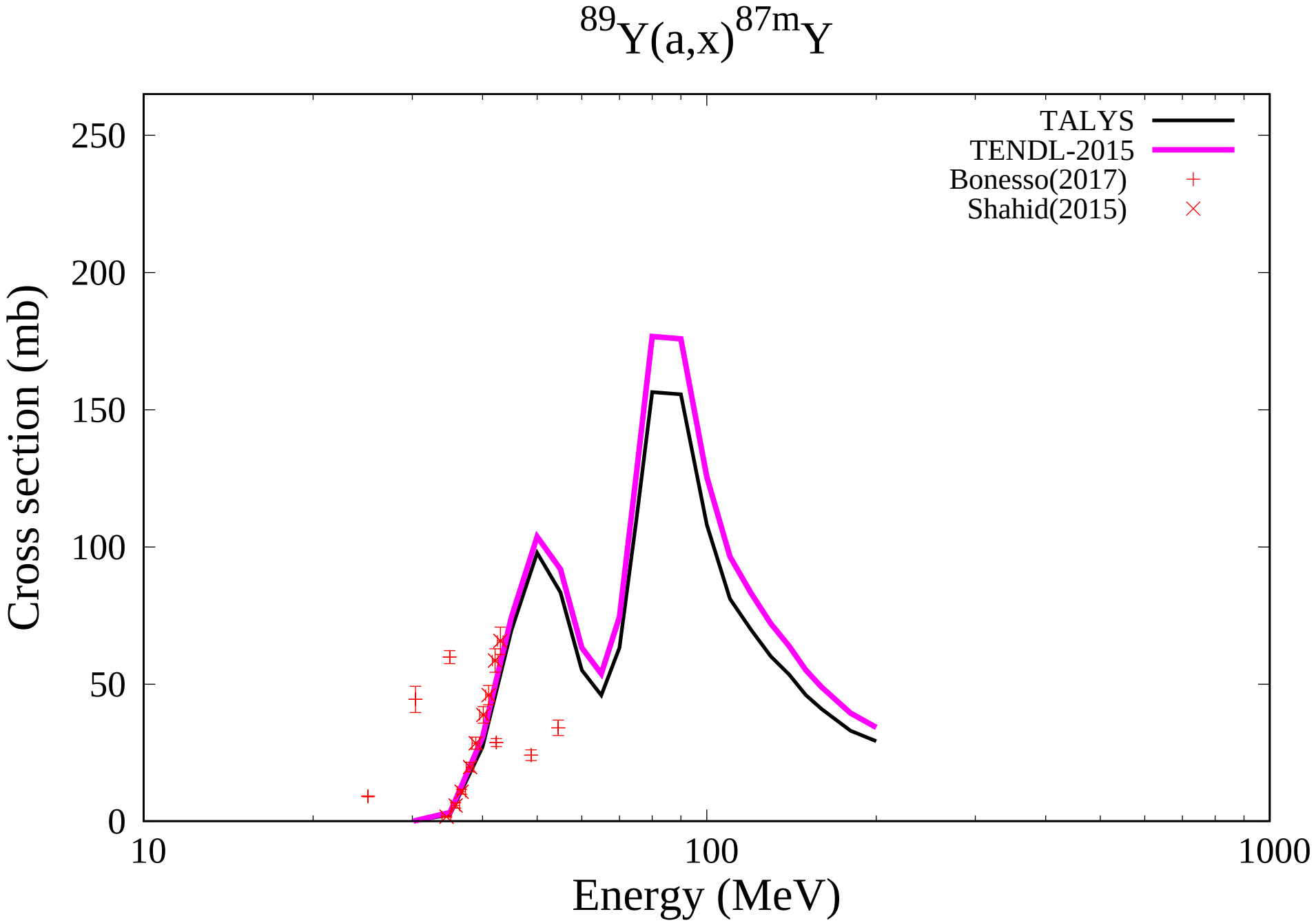

$^{89}$Y(a,3n)$^{90}$Nb
TALYS
TENDL-2015
Shahid(2015)
Singh(2000)
Chaubey(1999)
Levkovski(1991)
Cross section (mb)
0
200
400
600
800
1000
1200
100
1000
Energy (MeV)

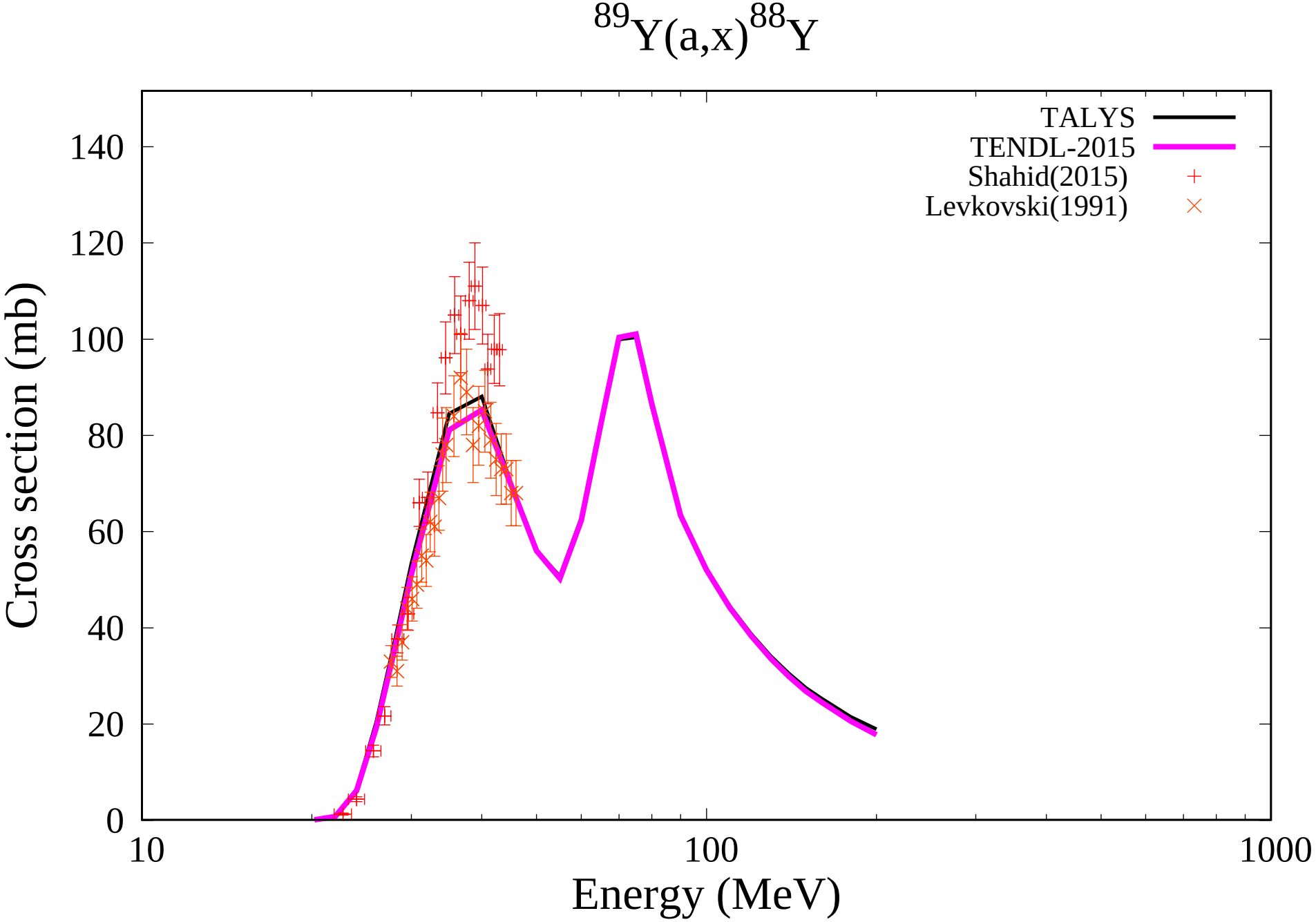

$^{89}$Y(a,na)$^{88}$Y
TALYS
Shahid(2015)
Singh(2000)
Levkovski(1991)
Cross section (mb)
0
20
40
60
80
100
120
140
100
1000
Energy (MeV)

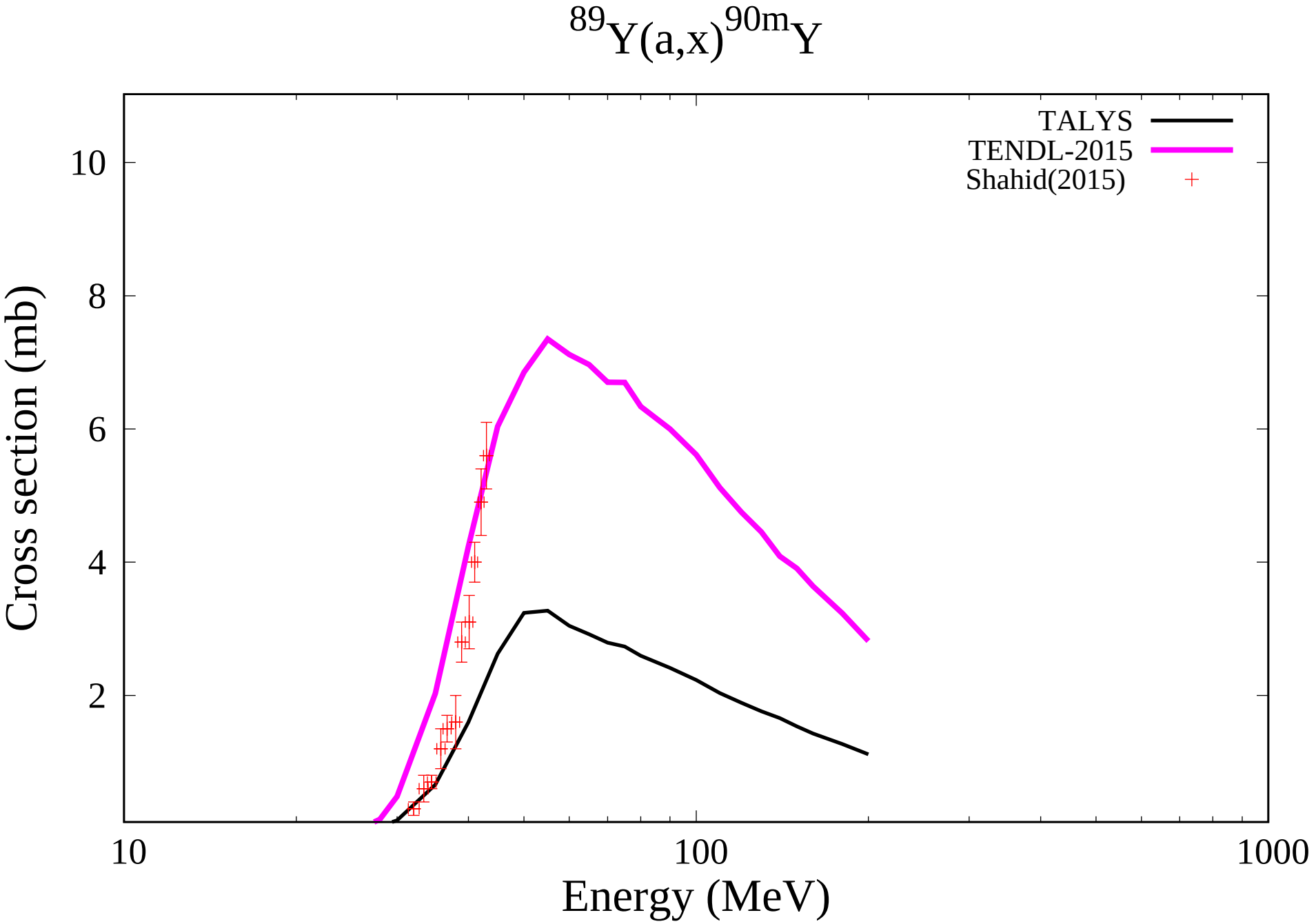

$^{89}$Y(a,2na)$^{87}$Y
Singh(2000)
Cross section (mb)
Energy (MeV)
0
10
20
30
40
50
60
70
10
100
1000

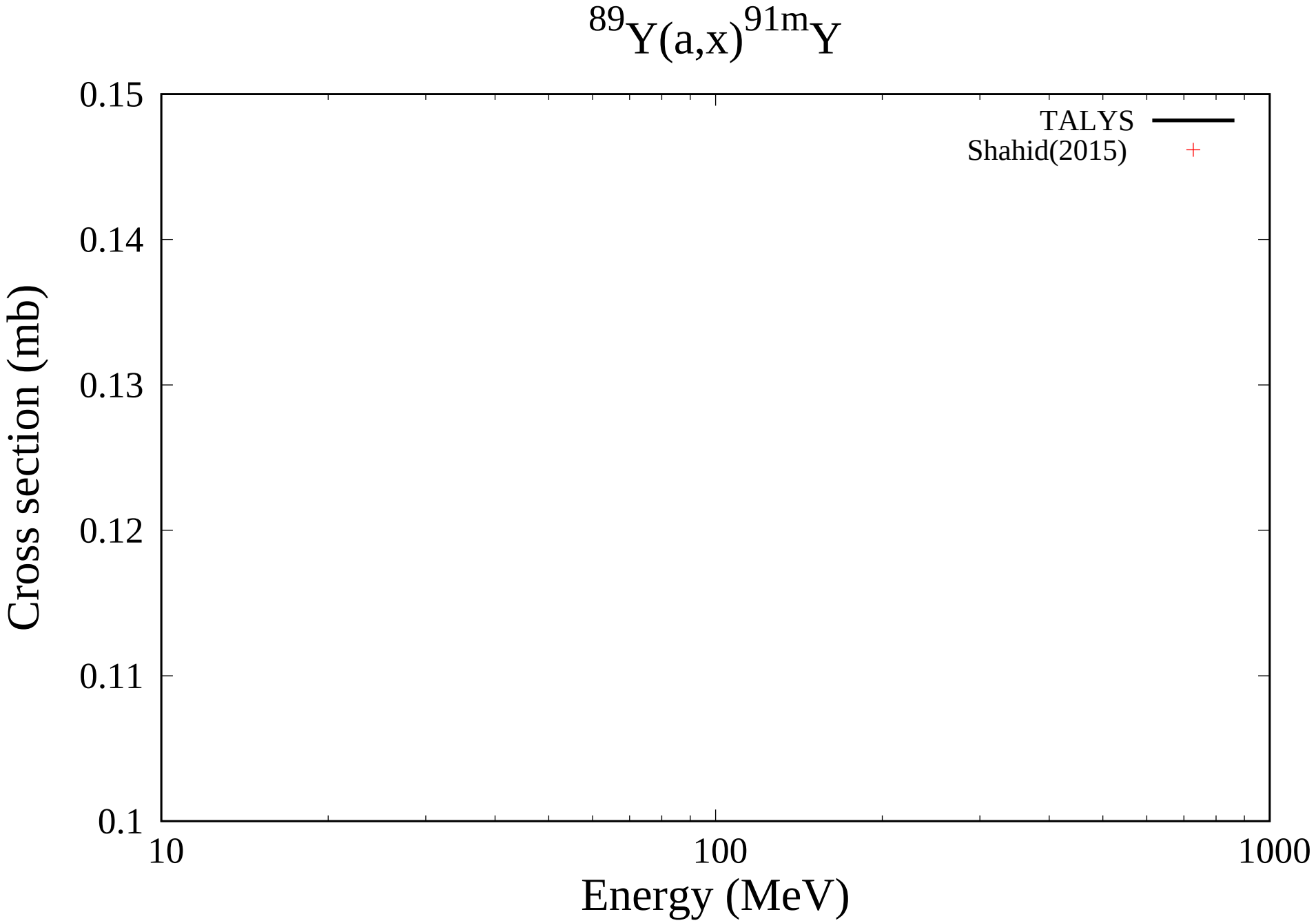

$^{89}$Y(a,x)$^{87}$Y
TALYS
TENDL-2015
Shahid(2015)
Levkovski(1991)
Cross section (mb)
Energy (MeV)
0
50
100
150
200
250
10
100
1000

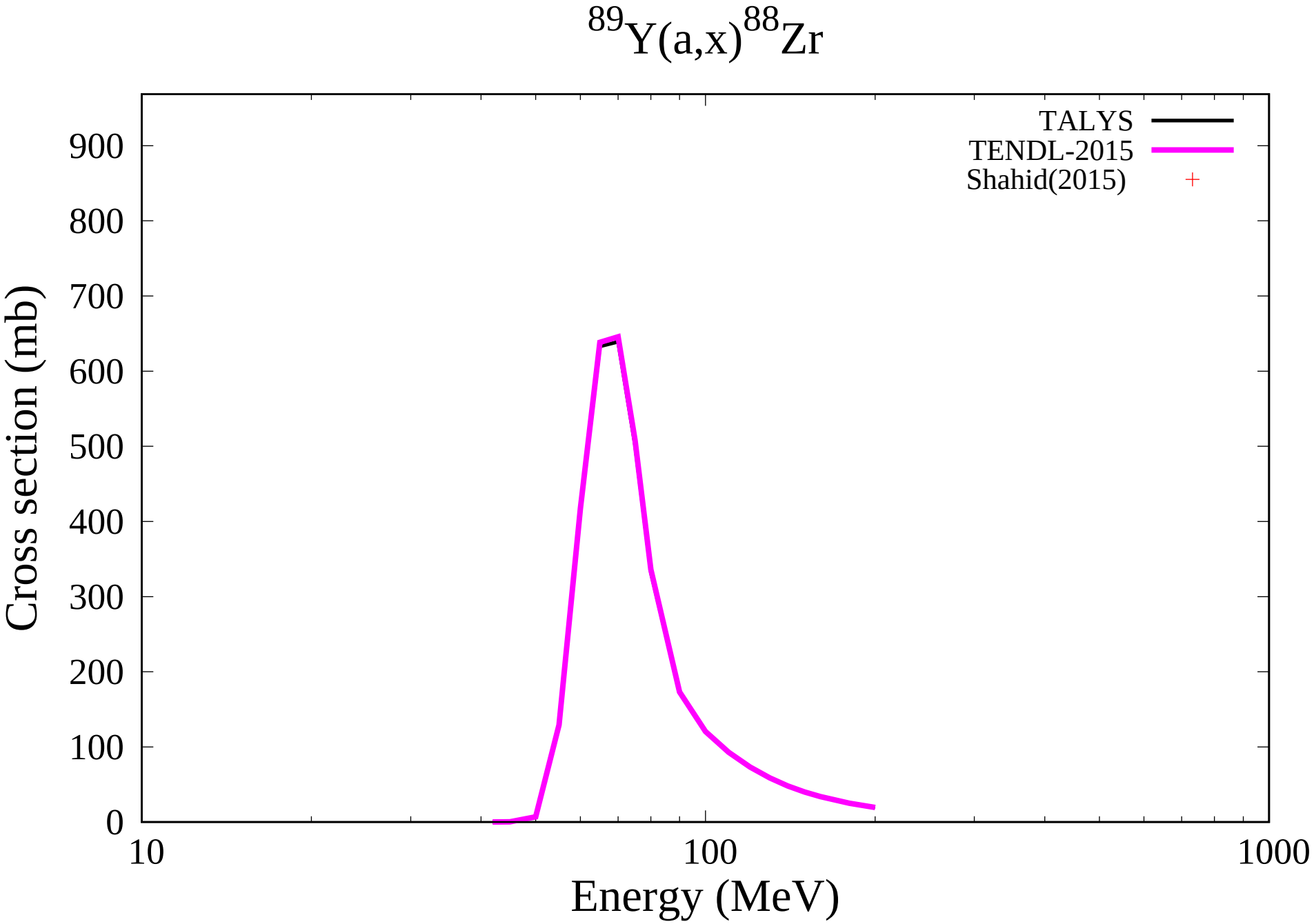

$^{89}Y(a,x)^{87g}Y$
TALYS
TENDL-2015
Bonesso(2017)
Shahid(2015)
Cross section (mb)
Energy (MeV)
0
50
100
150
200
250
10
100
1000

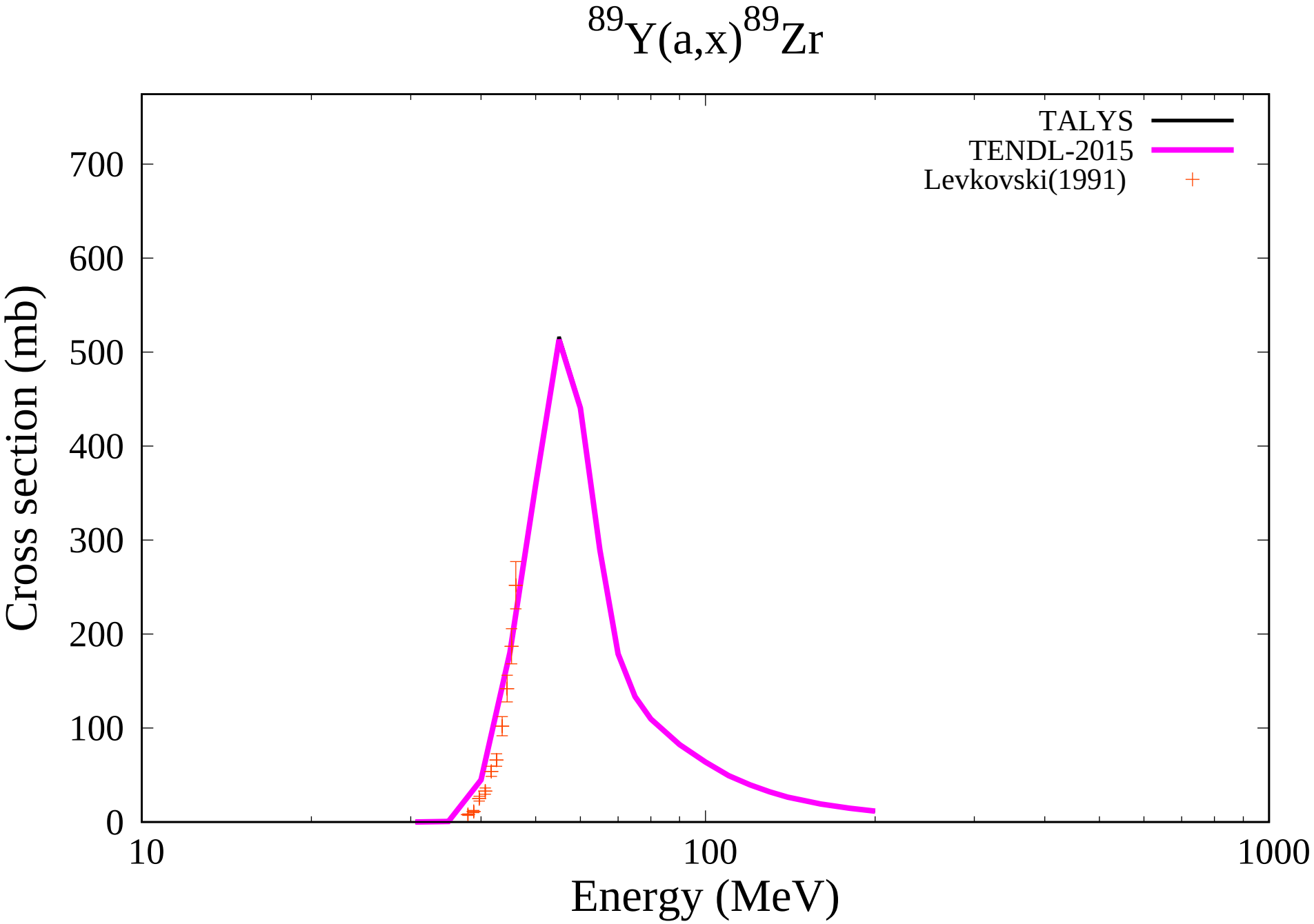

$^{89}Y(a,x)^{87m}Y$
TALYS
TENDL-2015
Bonesso(2017)
Shahid(2015)
Cross section (mb)
Energy (MeV)
0
50
100
150
200
250
10
100
1000

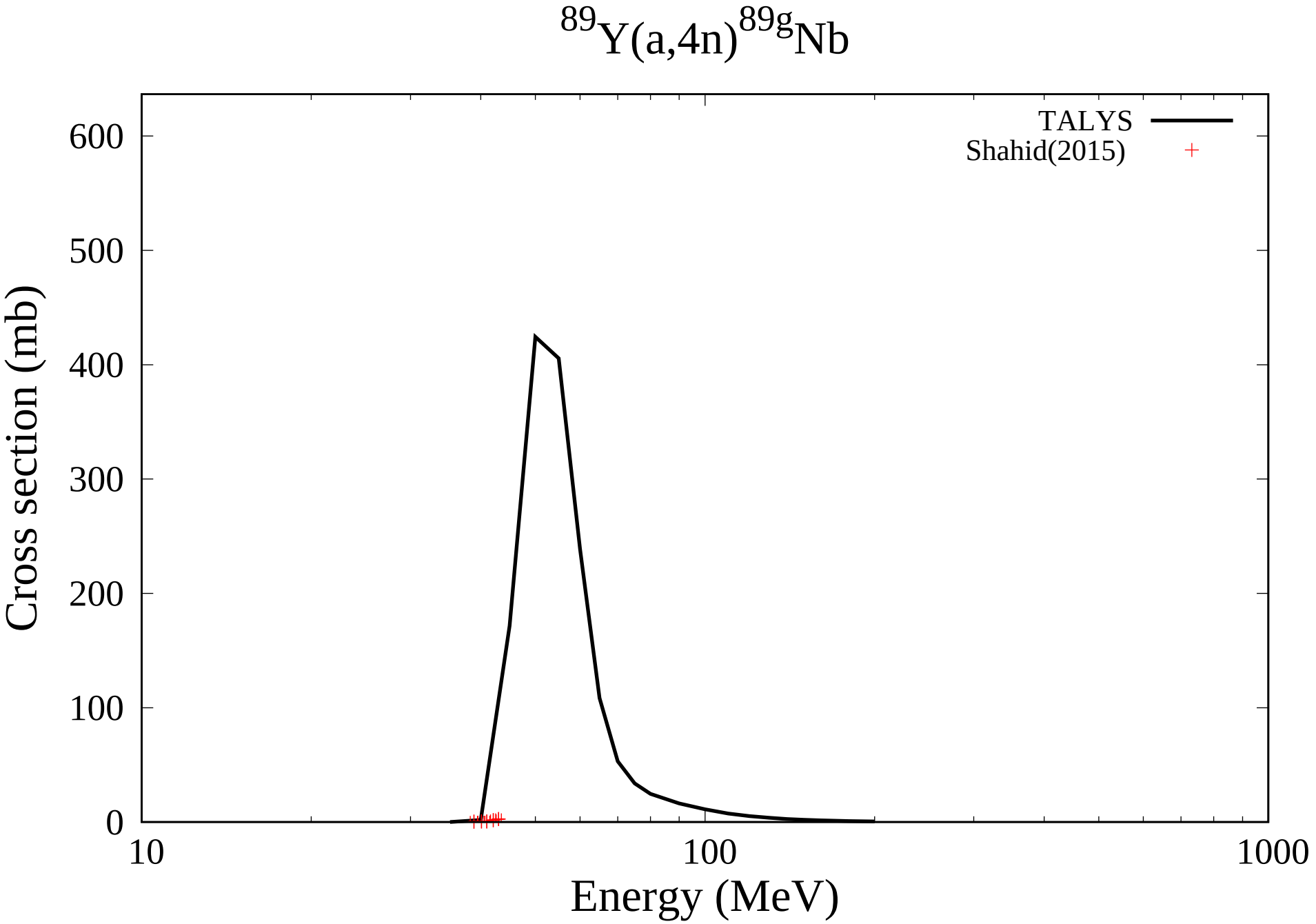

$^{89}$Y(a,x)$^{88}$Y
TALYS
TENDL-2015
Shahid(2015)
Levkovski(1991)
Cross section (mb)
Energy (MeV)
0
20
40
60
80
100
120
140
10
100
1000

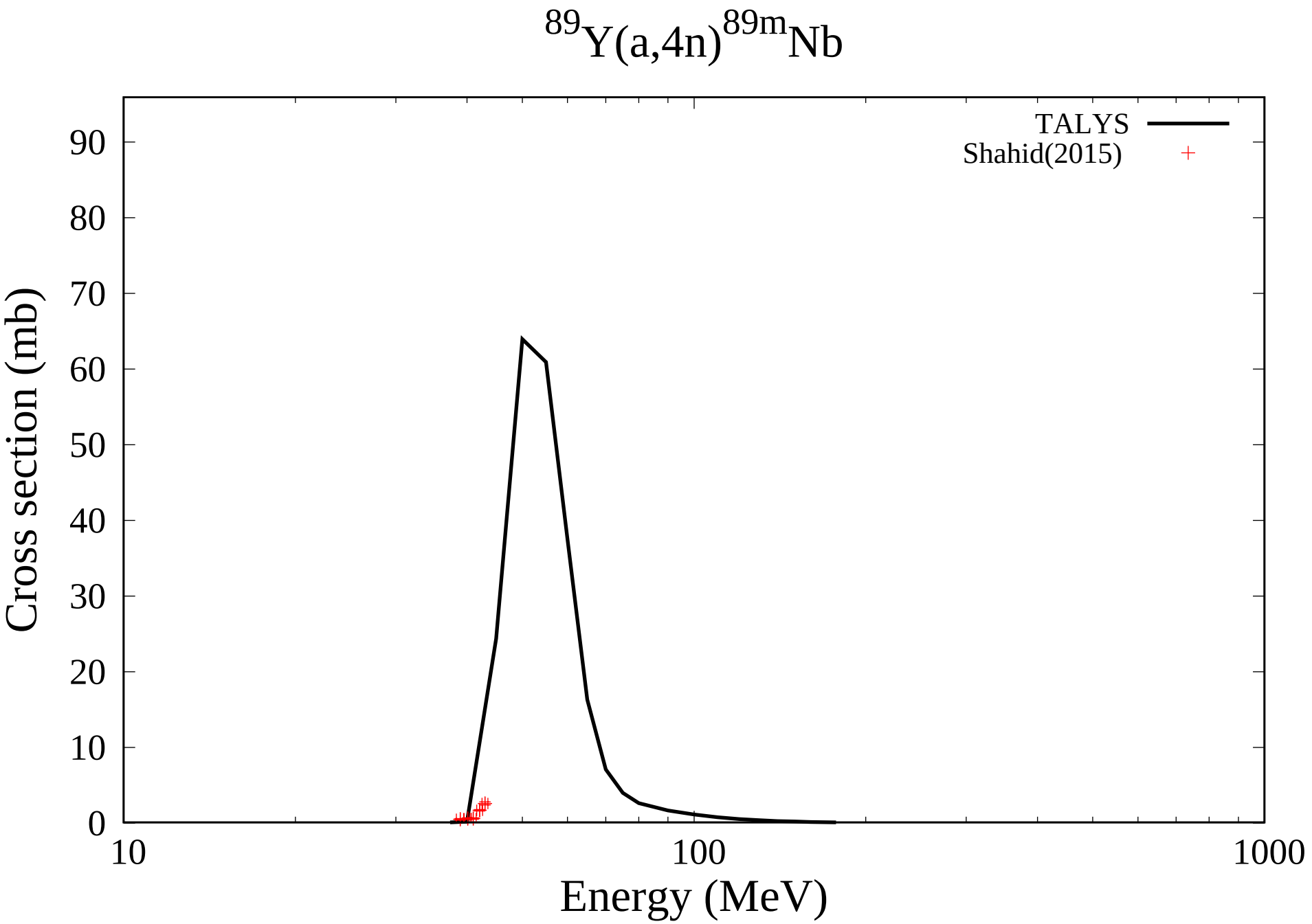

$^{89}Y(a,x)^{90m}Y$
TALYS
TENDL-2015
Shahid(2015)
Cross section (mb)
Energy (MeV)
10
8
6
4
2
10
100
1000

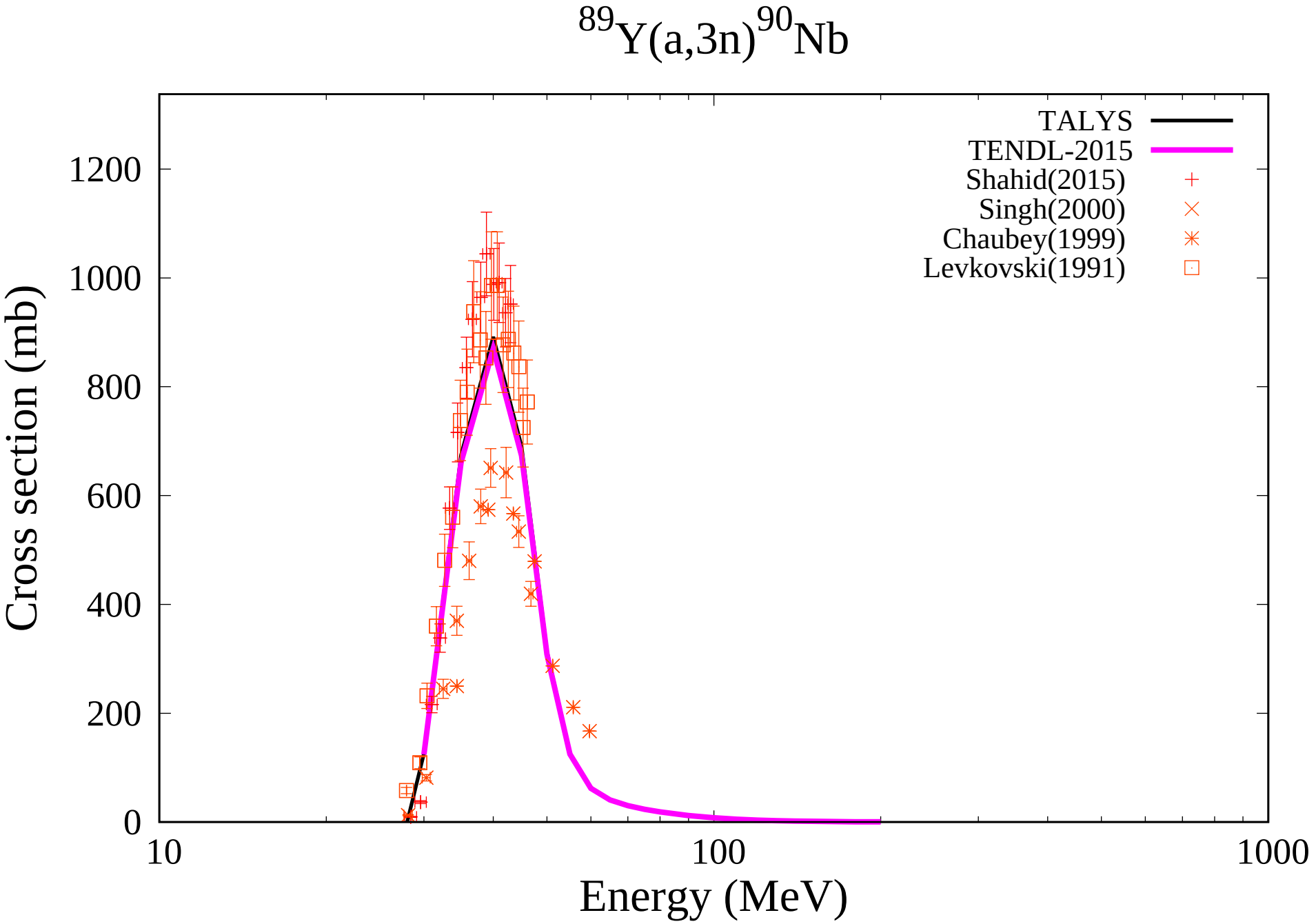

$^{89}Y(a,x)^{91m}Y$
TALYS
Shahid(2015)
Cross section (mb)
0.15
0.14
0.13
0.12
0.11
0.1
10
100
1000
Energy (MeV)

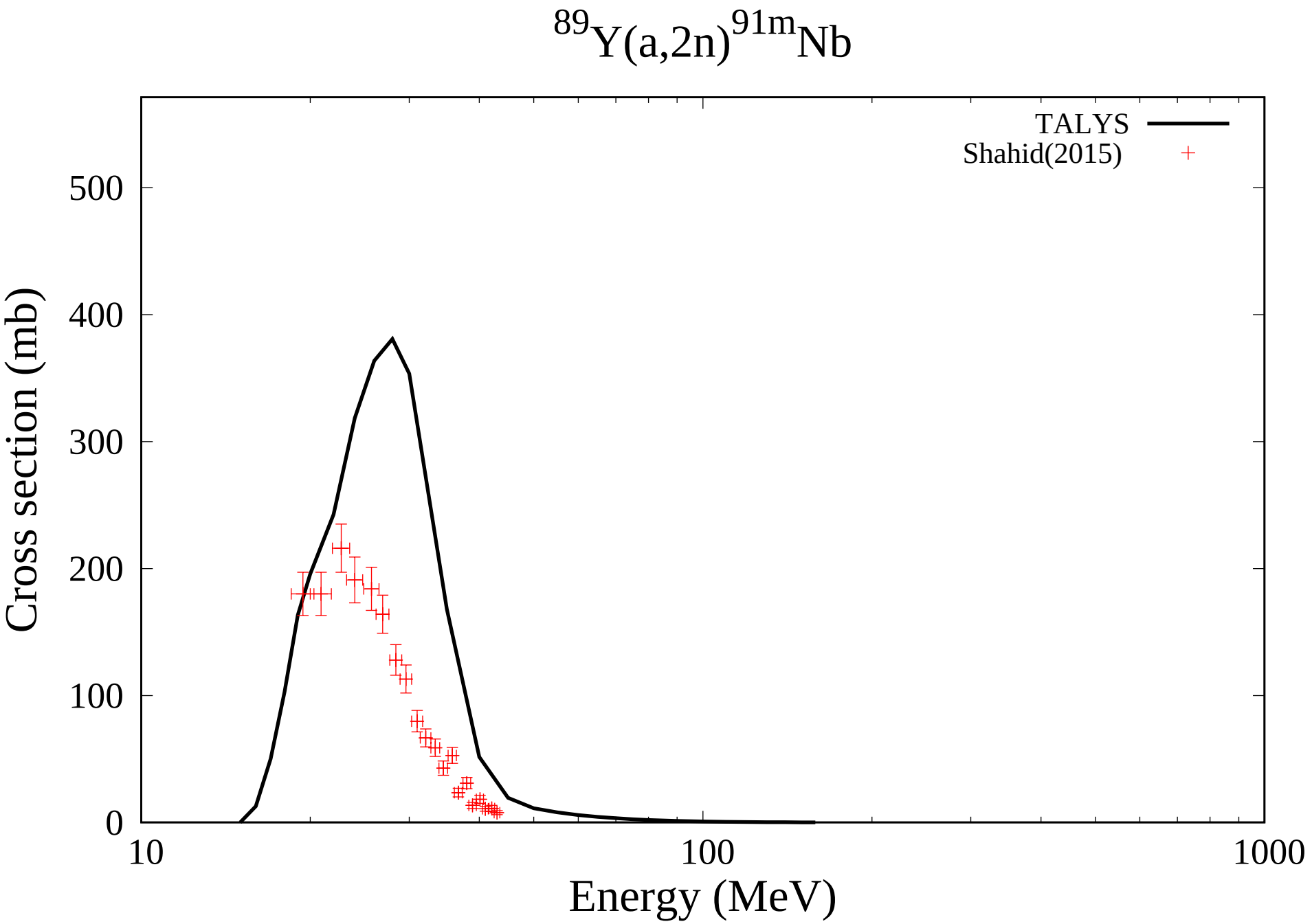

$^{89}$Y(a,x)$^{88}$Zr
TALYS
TENDL-2015
Shahid(2015)
Cross section (mb)
900
800
700
600
500
400
300
200
100
0
10
100
1000
Energy (MeV)

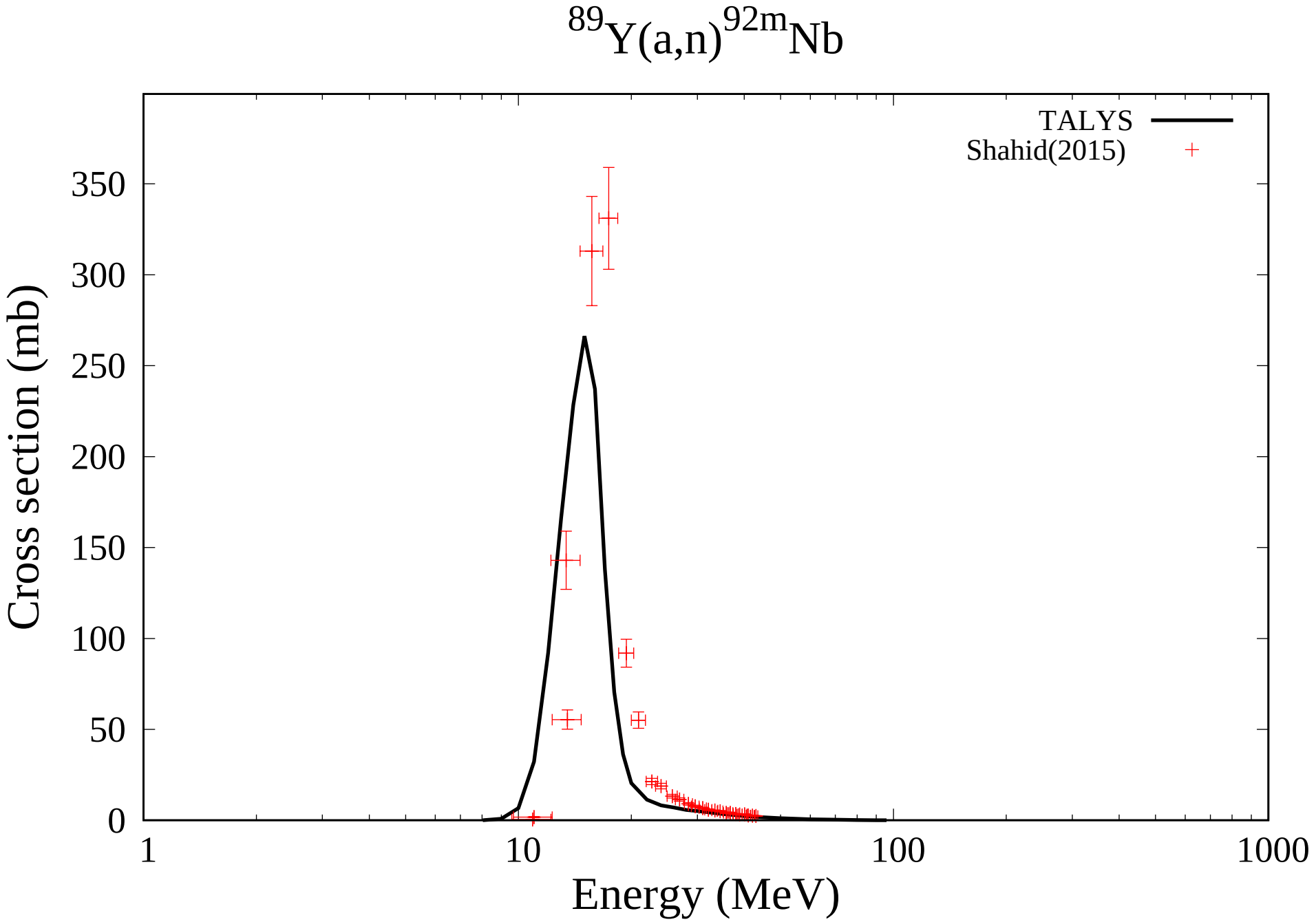

$^{89}$Y(a,x)$^{89}$Zr
TALYS
TENDL-2015
Levkovski(1991)
Cross section (mb)
0
100
200
300
400
500
600
700
10
100
1000
Energy (MeV)


$^{89}$Y(a,4n)$^{89g}$Nb
TALYS
Shahid(2015)
Cross section (mb)
600
500
400
300
200
100
0
10
100
1000
Energy (MeV)


$^{89}$Y(a,4n)$^{89m}$Nb
TALYS
Shahid(2015)
Cross section (mb)
0
10
20
30
40
50
60
70
80
90
10
100
1000
Energy (MeV)


$^{89}$Y(a,3n)$^{90}$Nb
TALYS
TENDL-2015
Shahid(2015)
Singh(2000)
Chaubey(1999)
Levkovski(1991)
Cross section (mb)
0
200
400
600
800
1000
1200
10
100
1000
Energy (MeV)


$^{89}Y(a,2n)^{91m}Nb$
TALYS
Shahid(2015)
Cross section (mb)
0
100
200
300
400
500
10
100
1000
Energy (MeV)


$^{89}$Y(a,n)$^{92m}$Nb
TALYS
Shahid(2015)
Cross section (mb)
0
50
100
150
200
250
300
350
1
10
100
1000
Energy (MeV)