Neutron Capture Cross Sections of ^{69}Ga and ^{71}Ga at 25 keV and 90 keV

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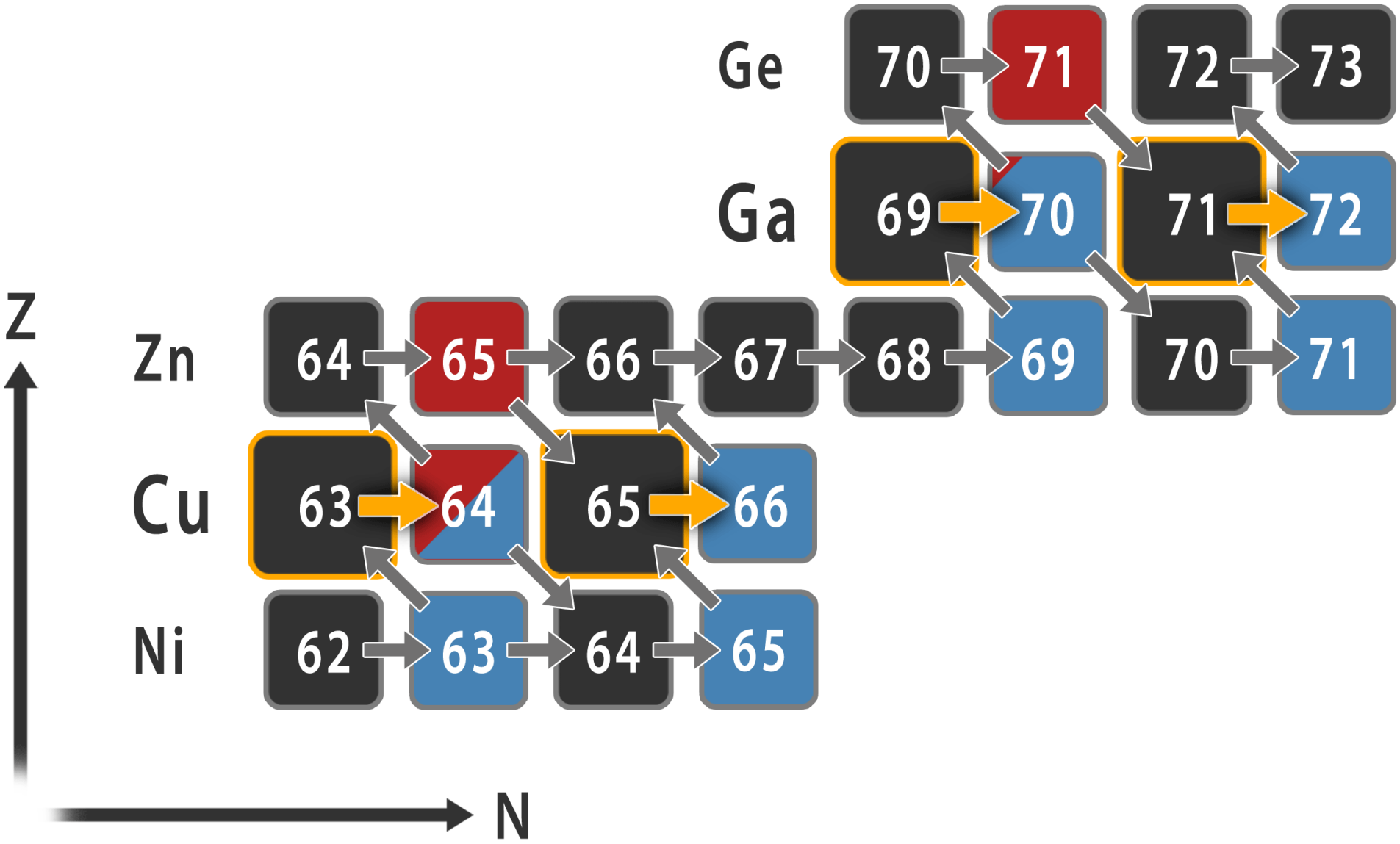
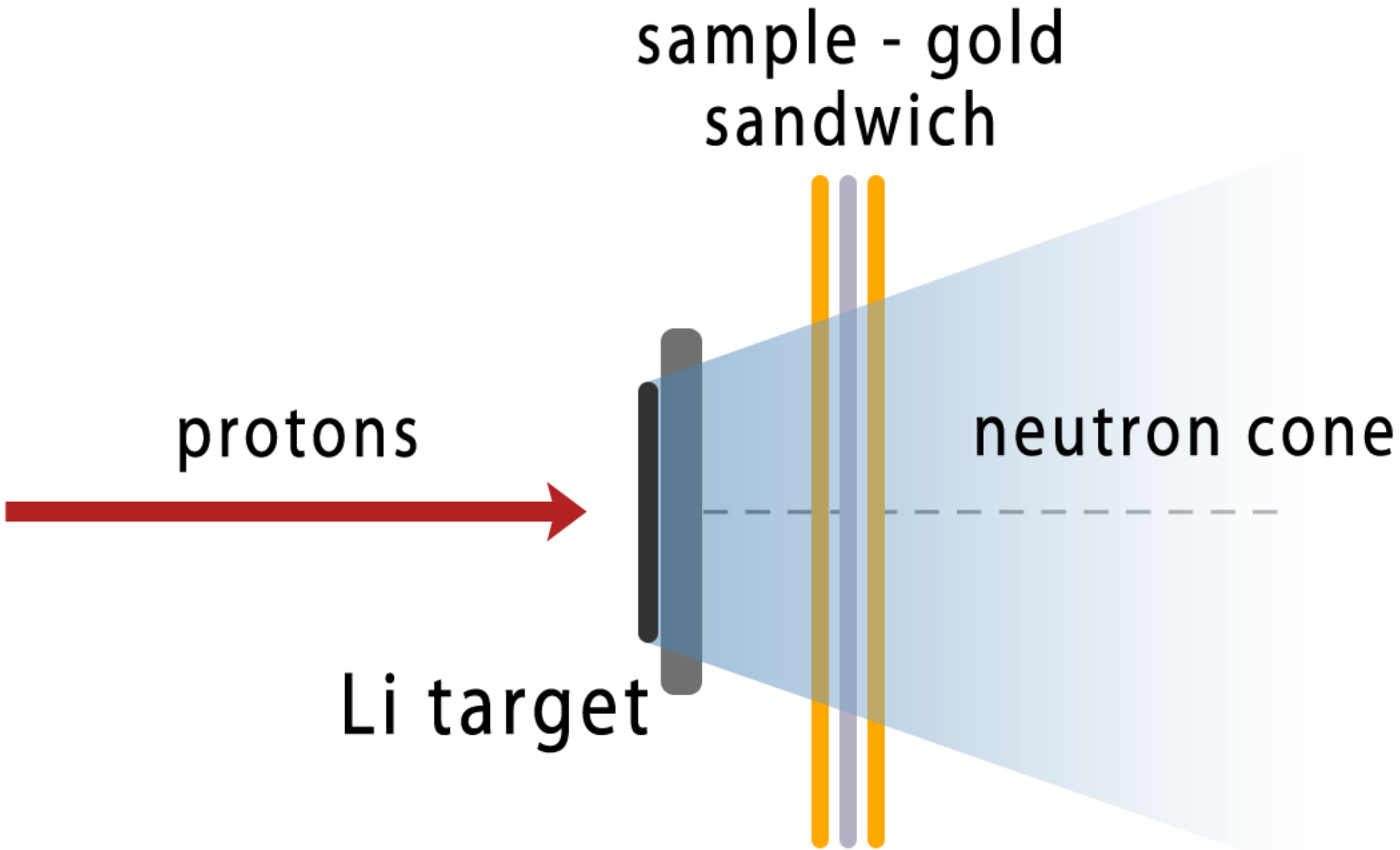
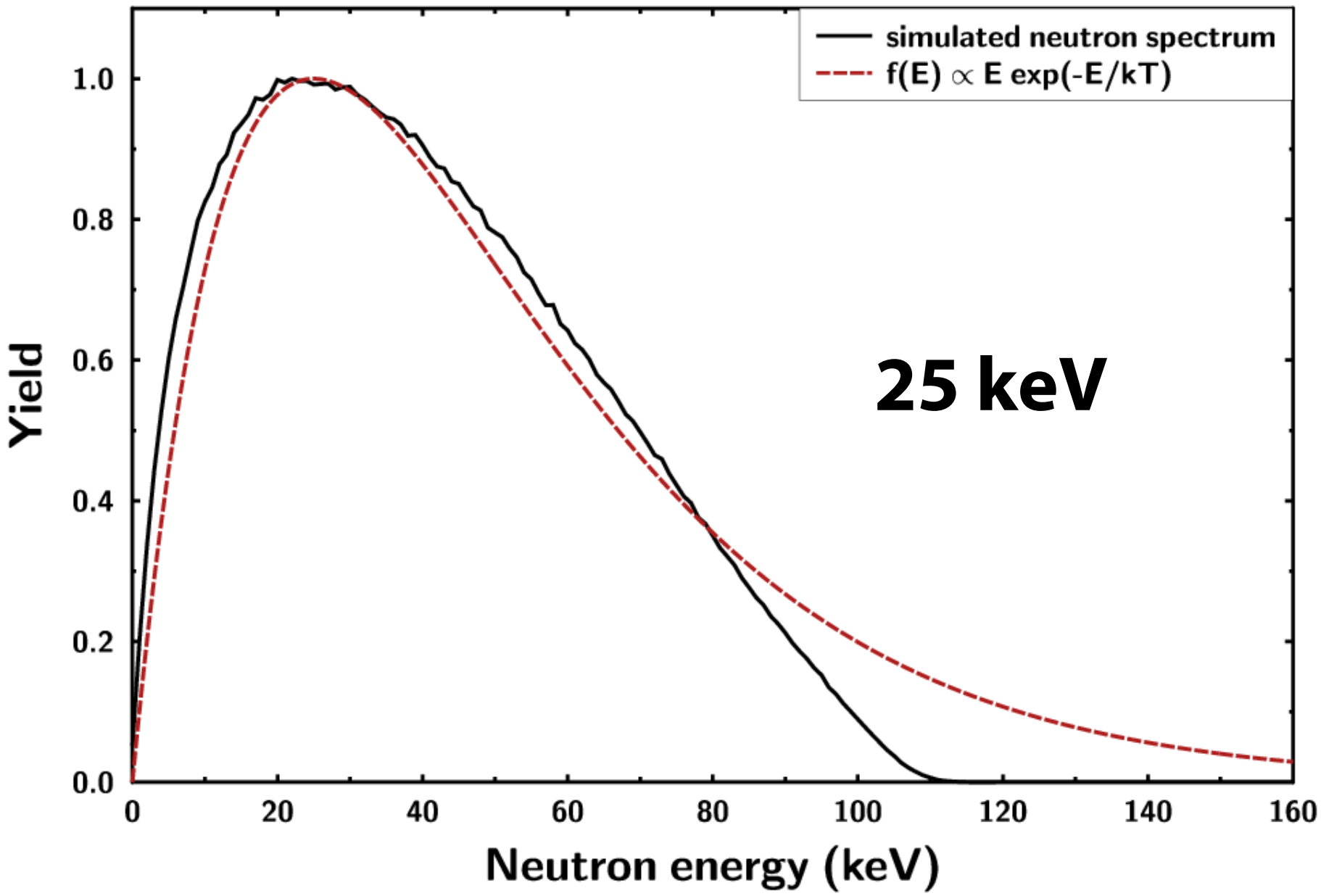
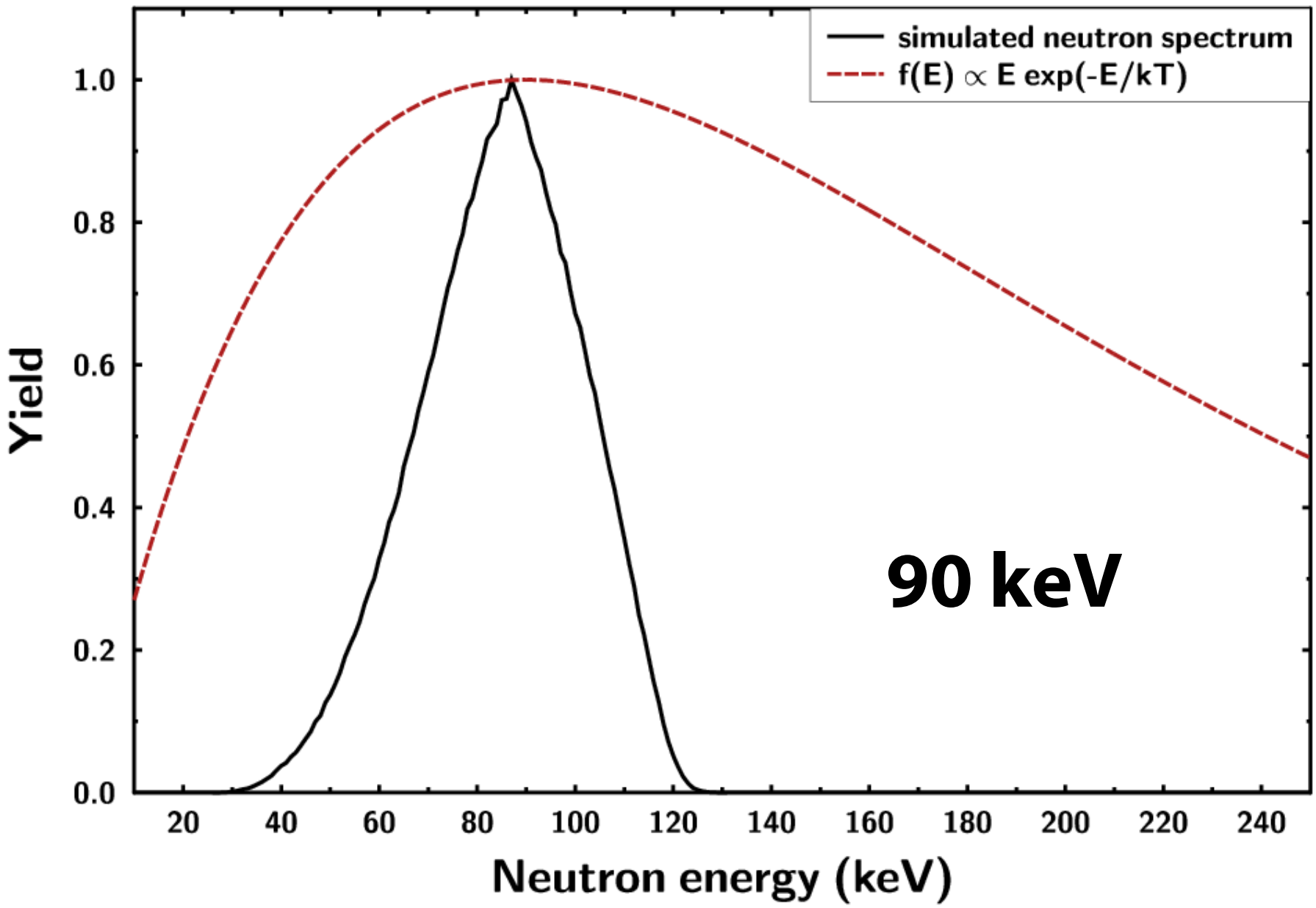
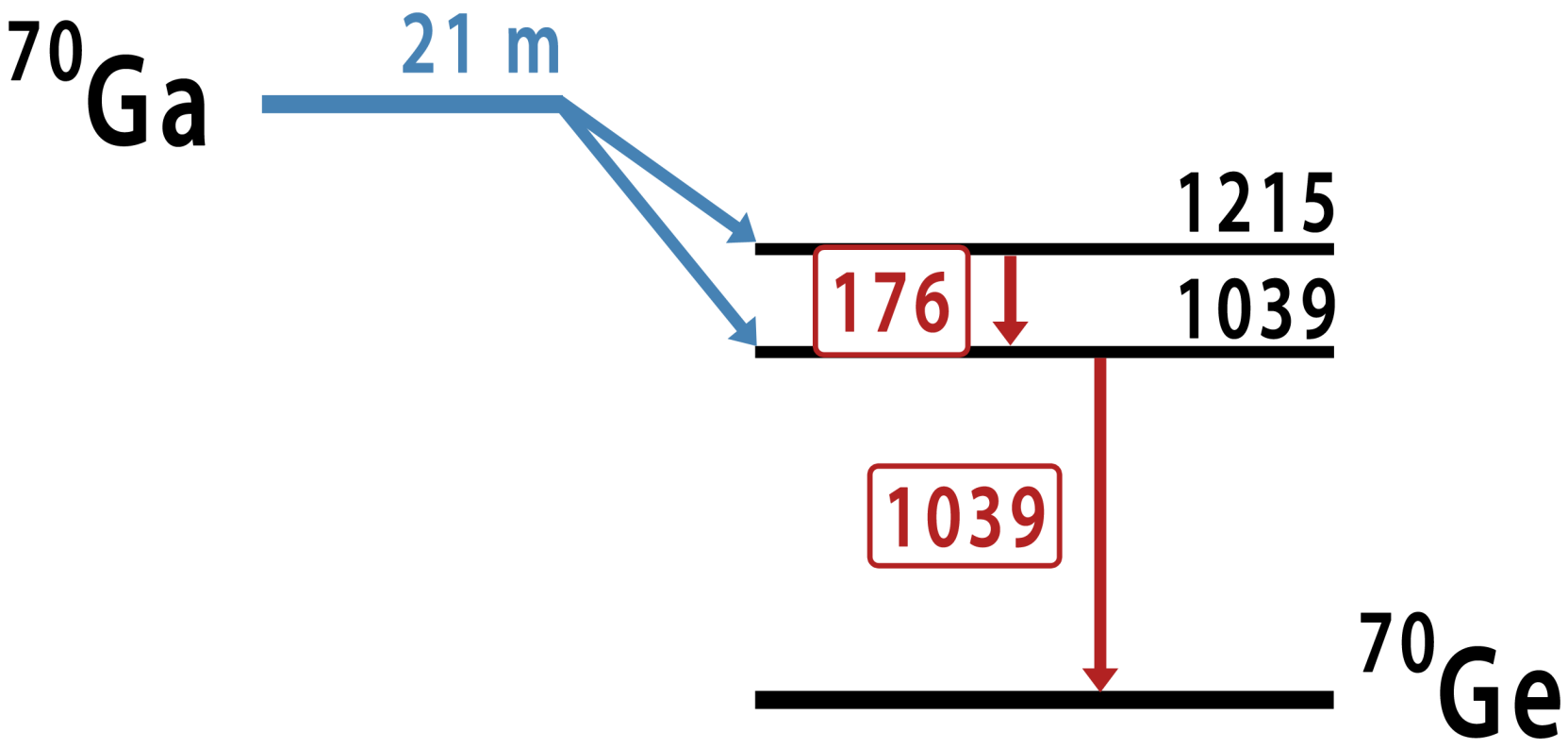
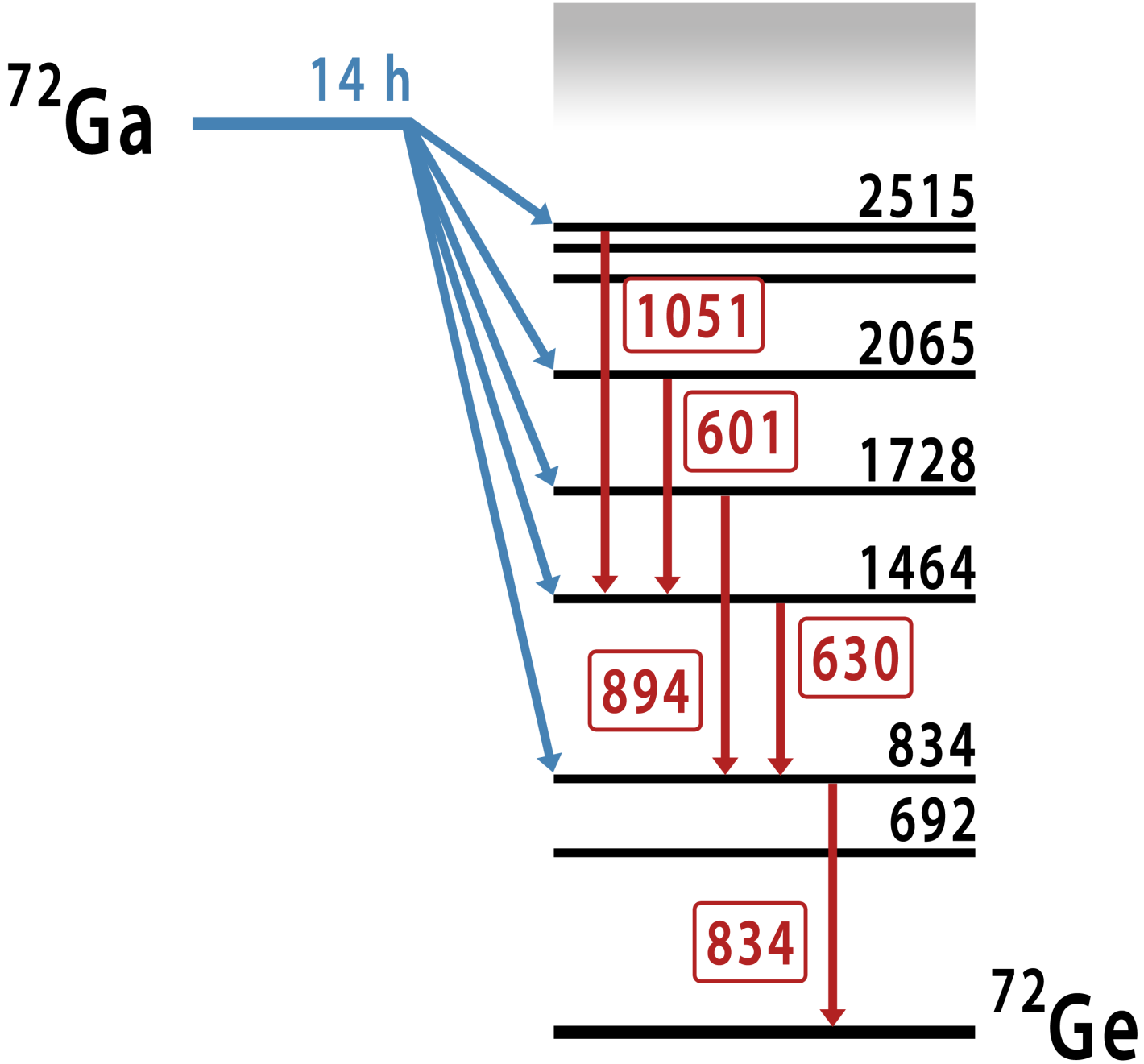

Ge
70
71
72
73
Ga
69
70
71
72
Z
Zn
64
65
66
67
68
69
70
71
Cu
63
64
65
66
Ni
62
63
64
65
N


sample - gold
sandwich
protons
neutron cone
Li target

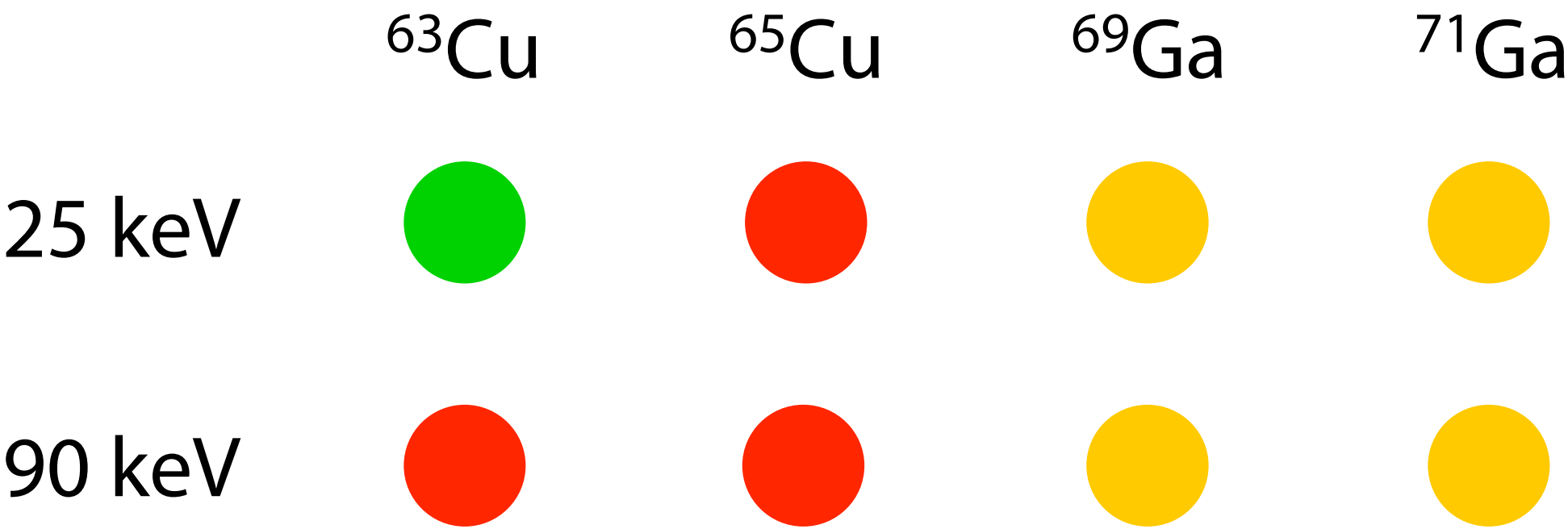

simulated neutron spectrum
f(E) ∝ E exp(-E/kT)
25 keV
Yield
1.0
0.8
0.6
0.4
0.2
0.0
0
20
40
60
80
100
120
140
160
Neutron energy (keV)


simulated neutron spectrum
f(E) ∝ E exp(-E/kT)
90 keV
Yield
Neutron energy (keV)
0.0
0.2
0.4
0.6
0.8
1.0
20
40
60
80
100
120
140
160
180
200
220
240


70Ga
21 m
1215
176
1039
1039
70Ge


72Ga
14 h
2515
1051
2065
601
1728
1464
894
630
834
692
834
72Ge

Status of neutron capture cross sections by activation



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