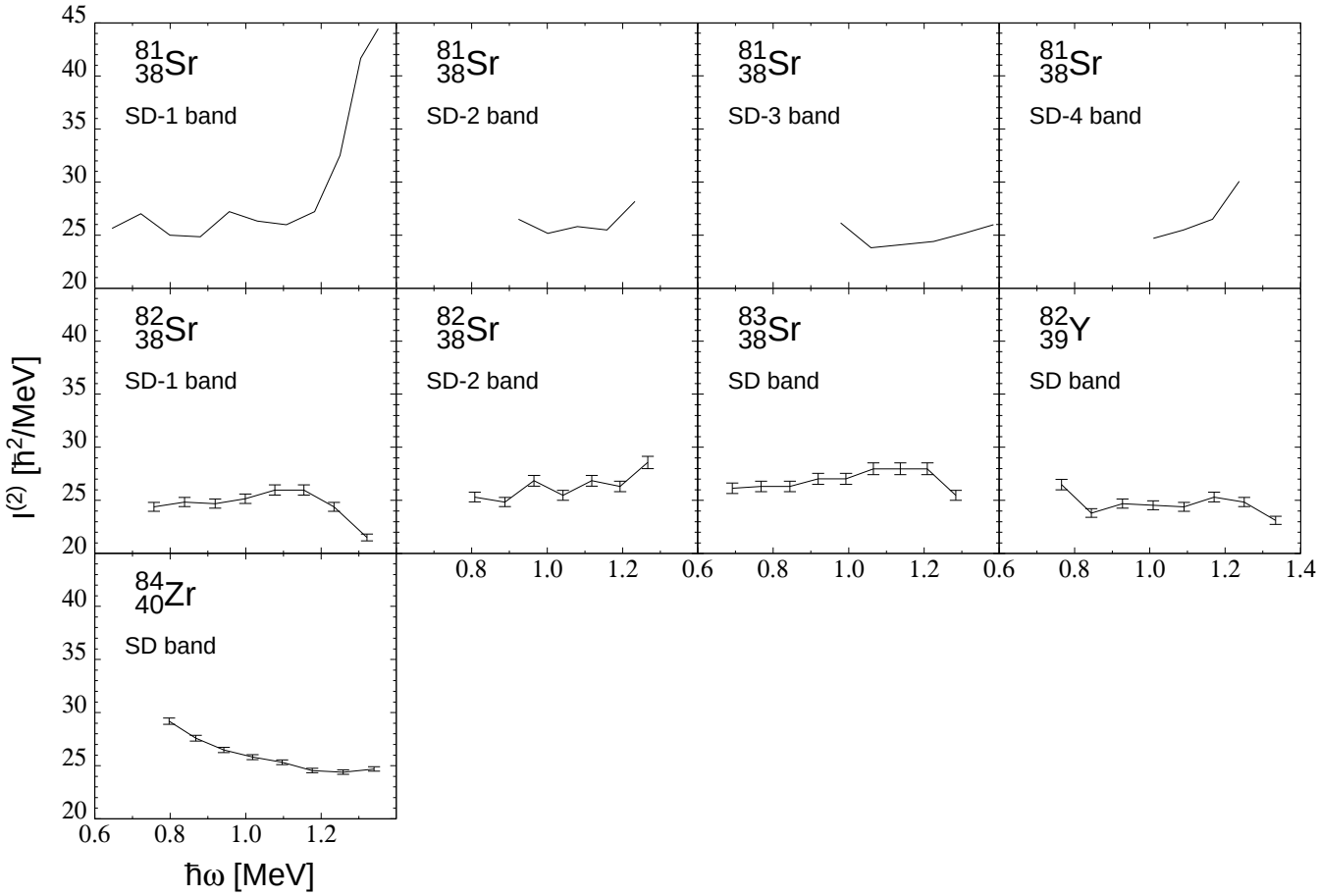
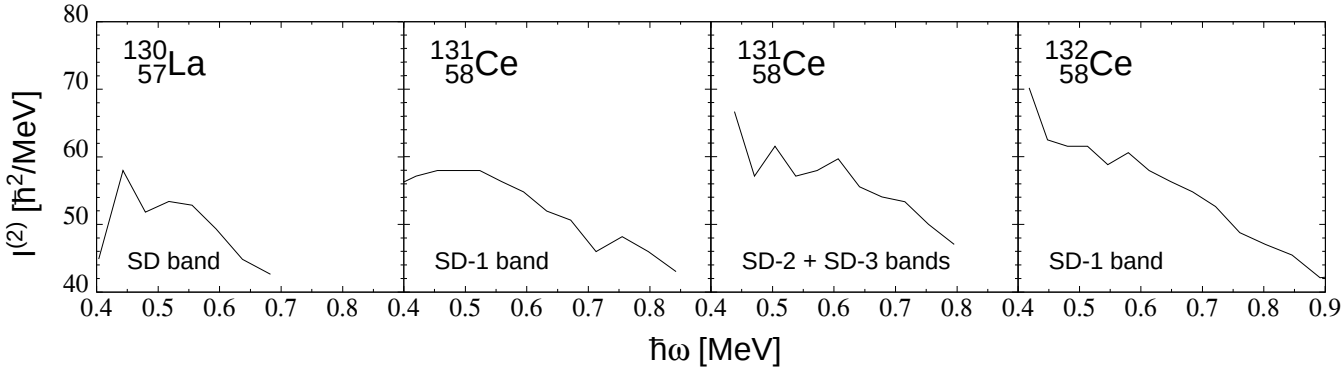
Plots of Dynamic Moments of Inertia

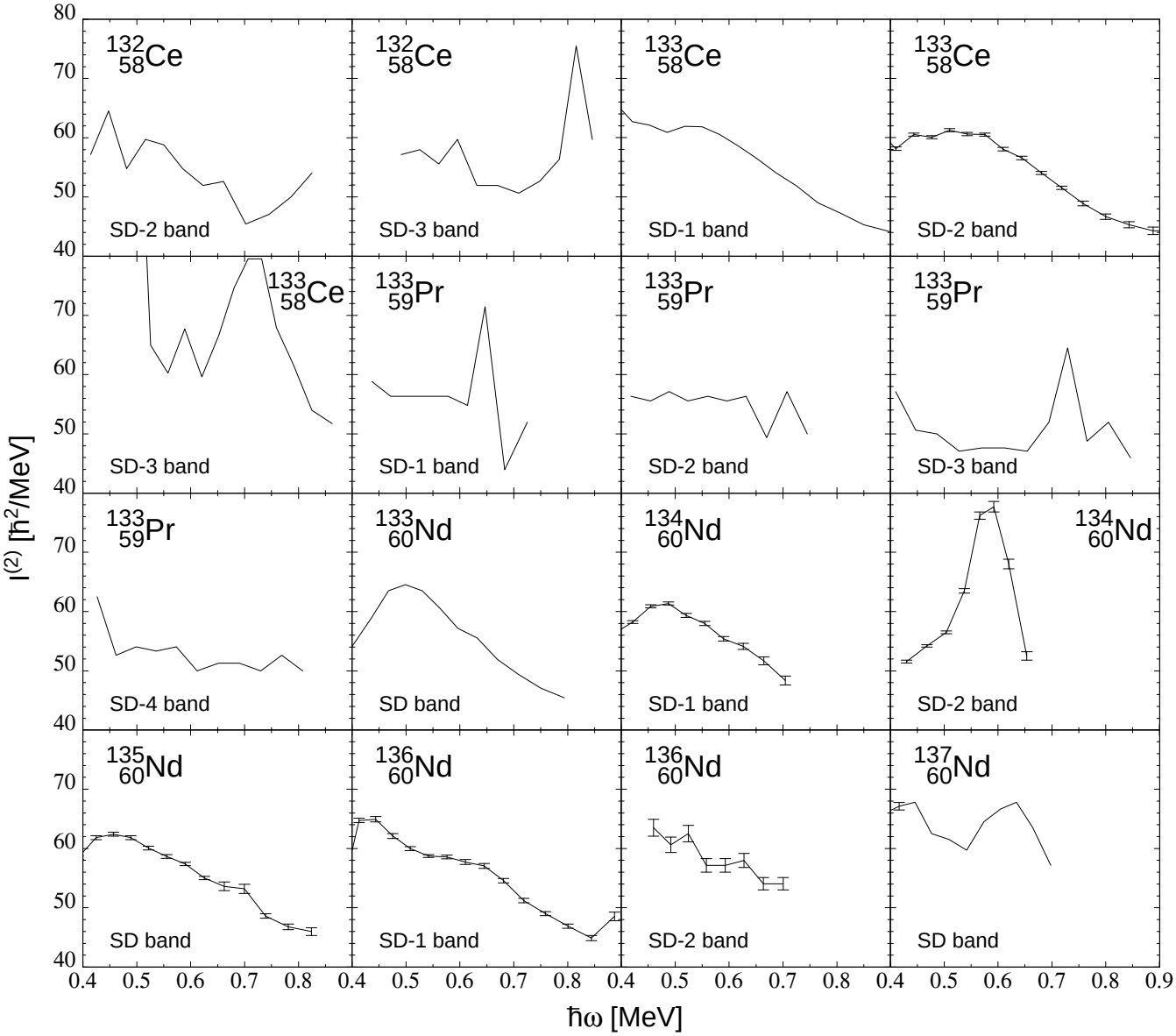
The dynamic moments of inertia ($I^{(2)}$) are plotted for all bands as a function of rotational frequency ($\hbar\omega$). Experimental uncertainties, calculated assuming the γ-ray energy uncertainties can be added in quadrature, are shown when available. The values of $I^{(1)}$,$I^{(2)}$, and $\hbar\omega$ are tabulated with the data.

Region I: A=81- 84

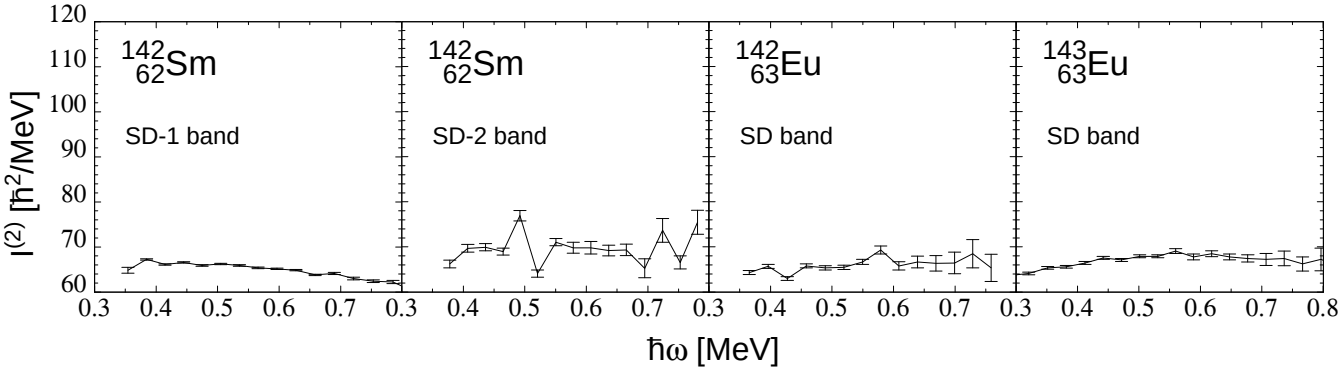


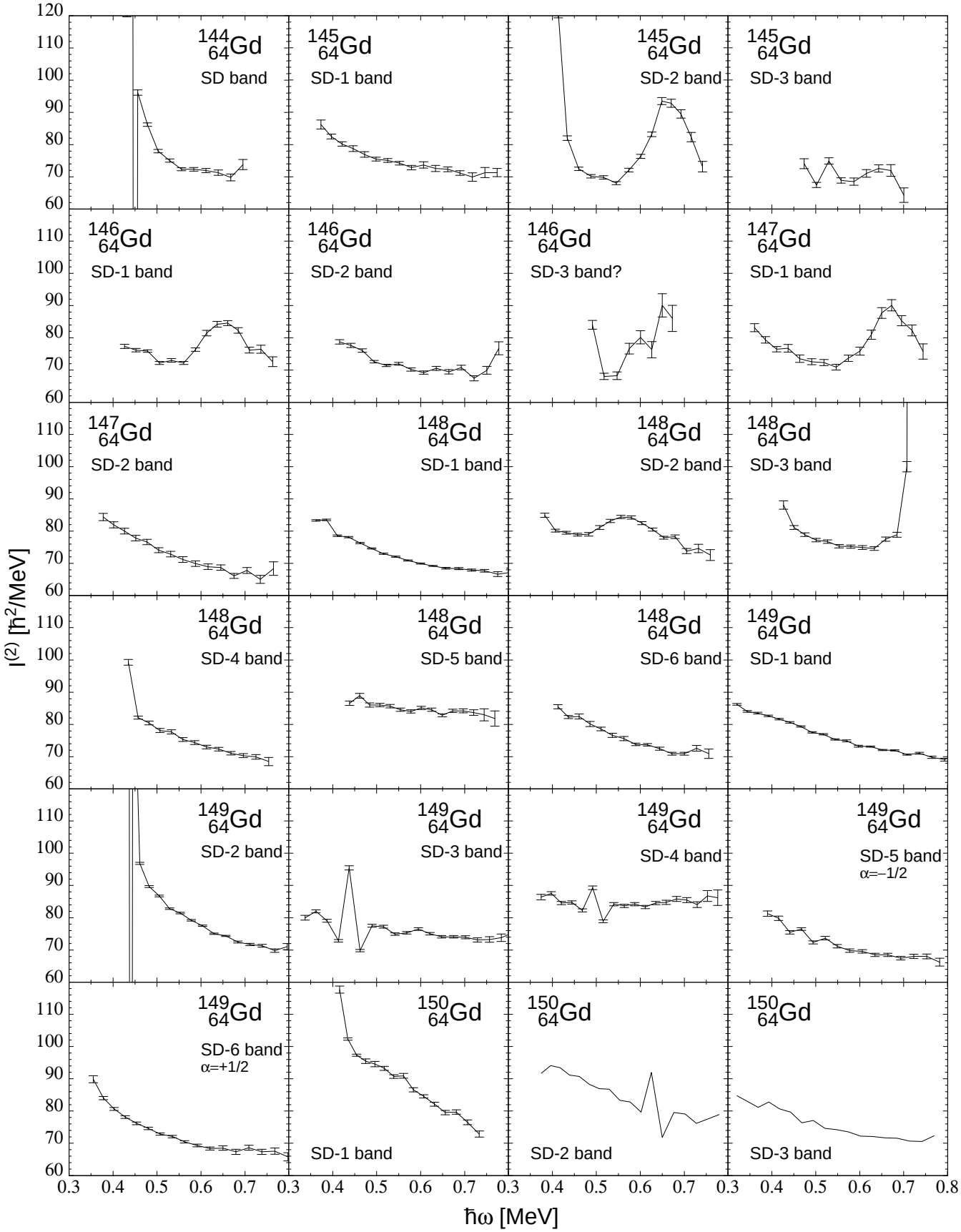
Region II: A=130 -137

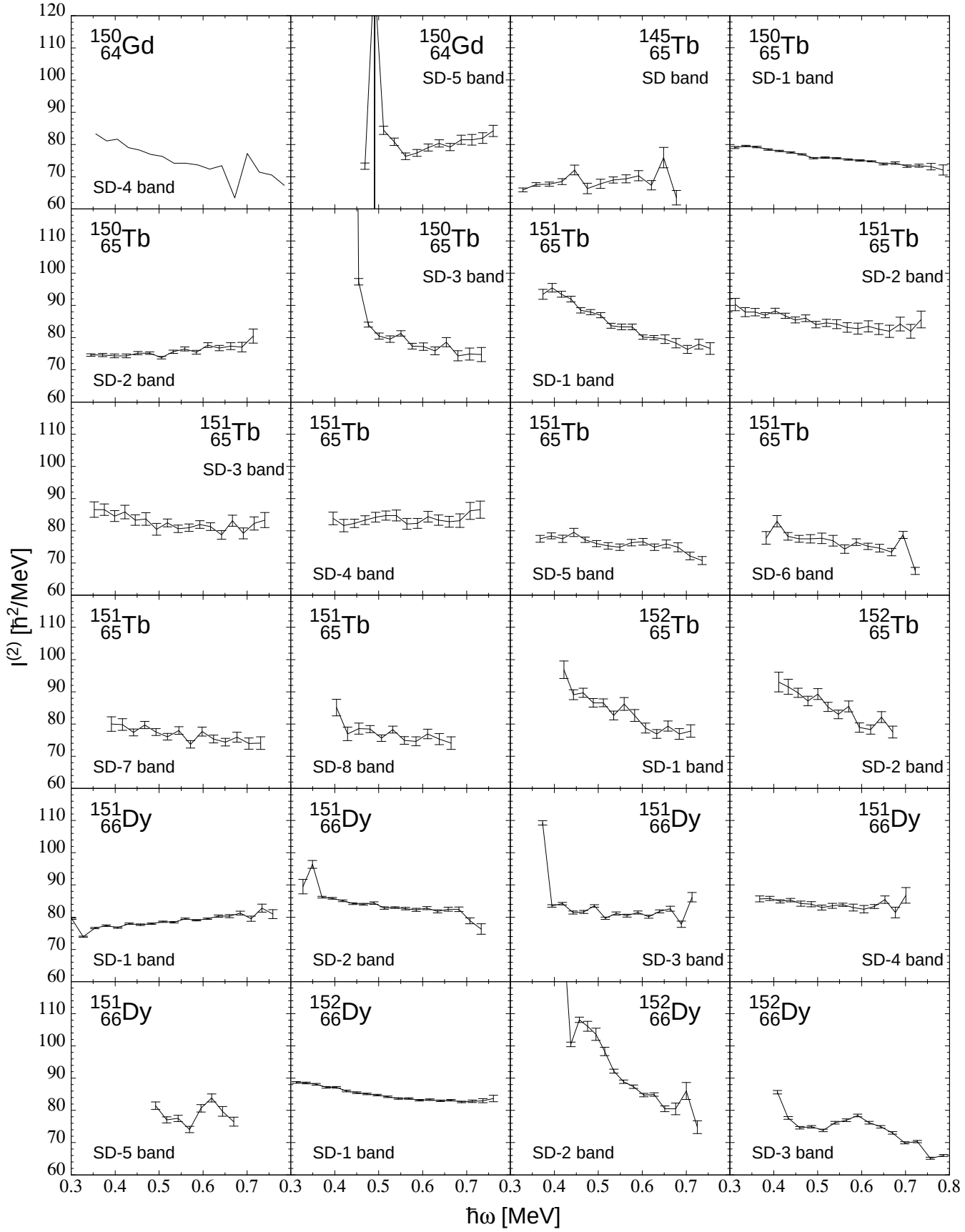


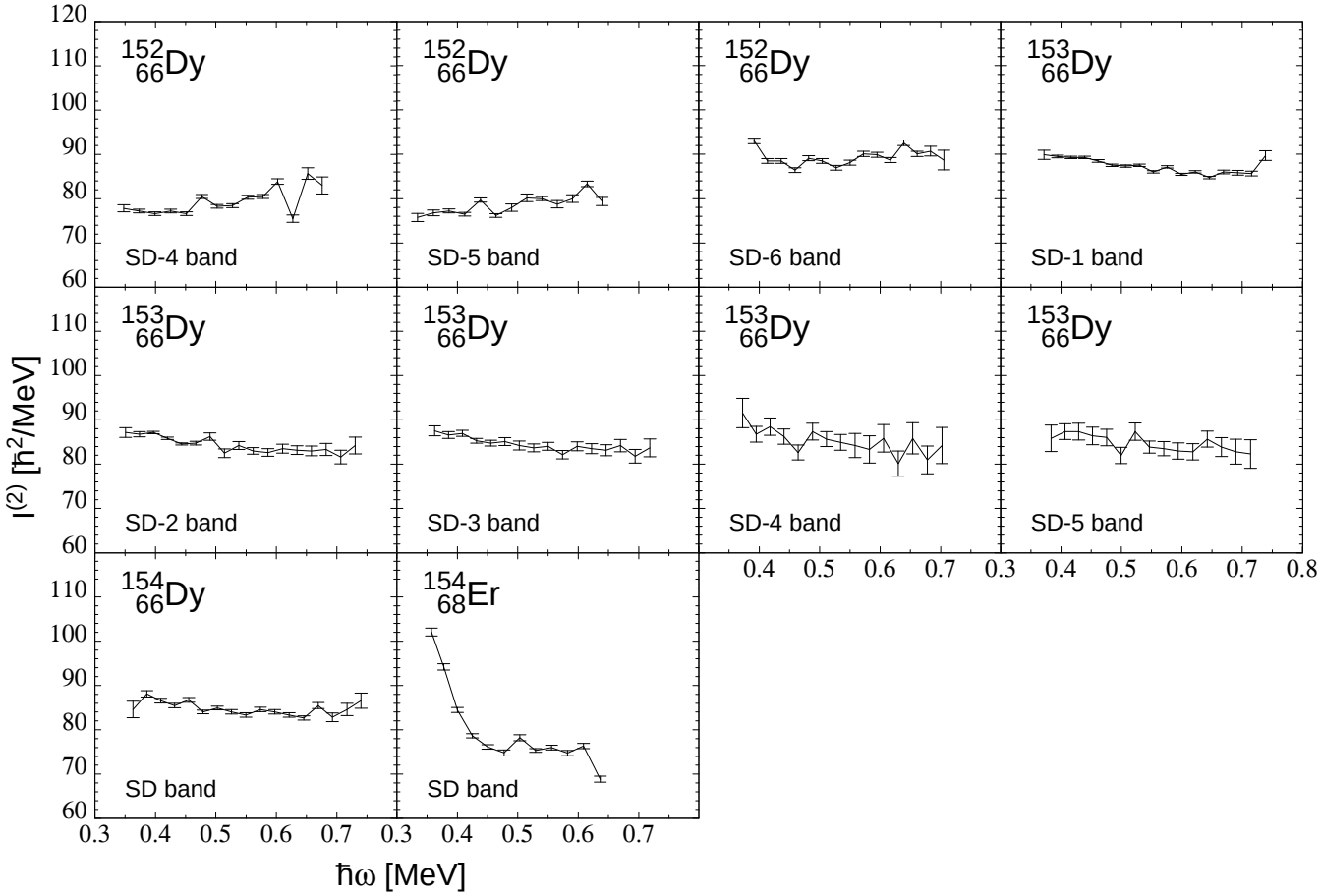


Region III: A=142 -154

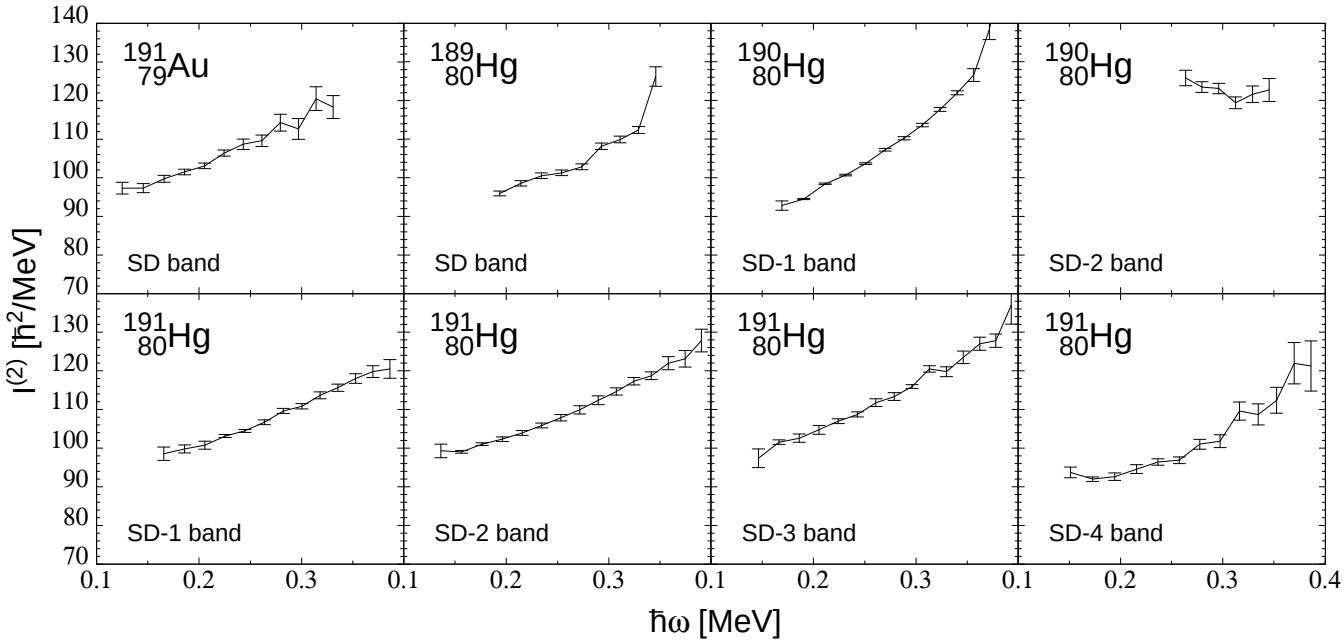


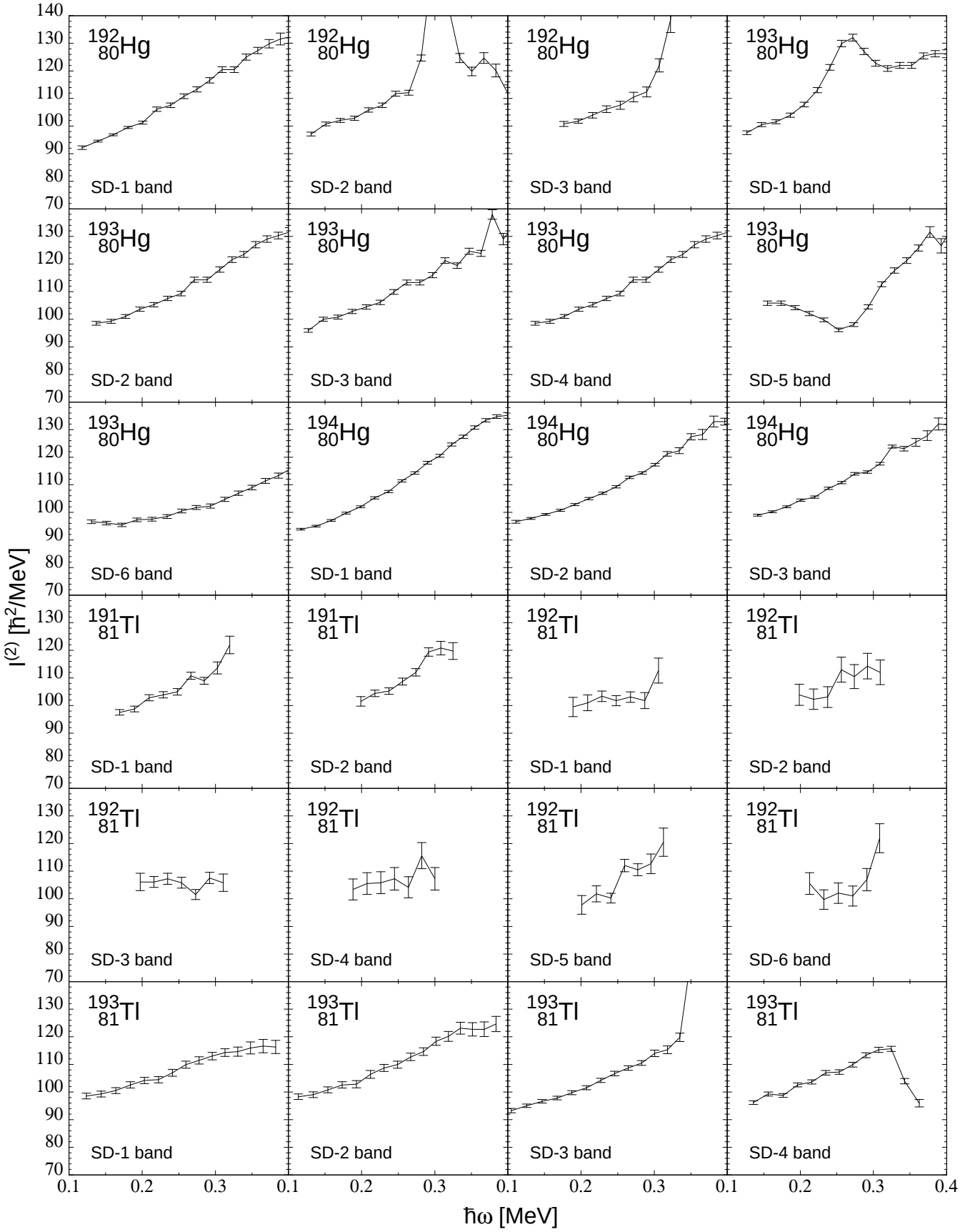

144 64 Gd
SD band
145 64 Gd
SD-1 band
145 64 Gd
SD-2 band
145 64 Gd
SD-3 band
146 64 Gd
SD-1 band
146 64 Gd
SD-2 band
146 64 Gd
SD-3 band?
147 64 Gd
SD-1 band
147 64 Gd
SD-2 band
148 64 Gd
SD-1 band
148 64 Gd
SD-2 band
148 64 Gd
SD-3 band
148 64 Gd
SD-4 band
148 64 Gd
SD-5 band
148 64 Gd
SD-6 band
149 64 Gd
SD-1 band
149 64 Gd
SD-2 band
149 64 Gd
SD-3 band
149 64 Gd
SD-4 band
149 64 Gd
SD-5 band
α=−1/2
149 64 Gd
SD-6 band
α=+1/2
150 64 Gd
SD-1 band
150 64 Gd
SD-2 band
150 64 Gd
SD-3 band
I(2) [ħ2/MeV]
ħω [MeV]

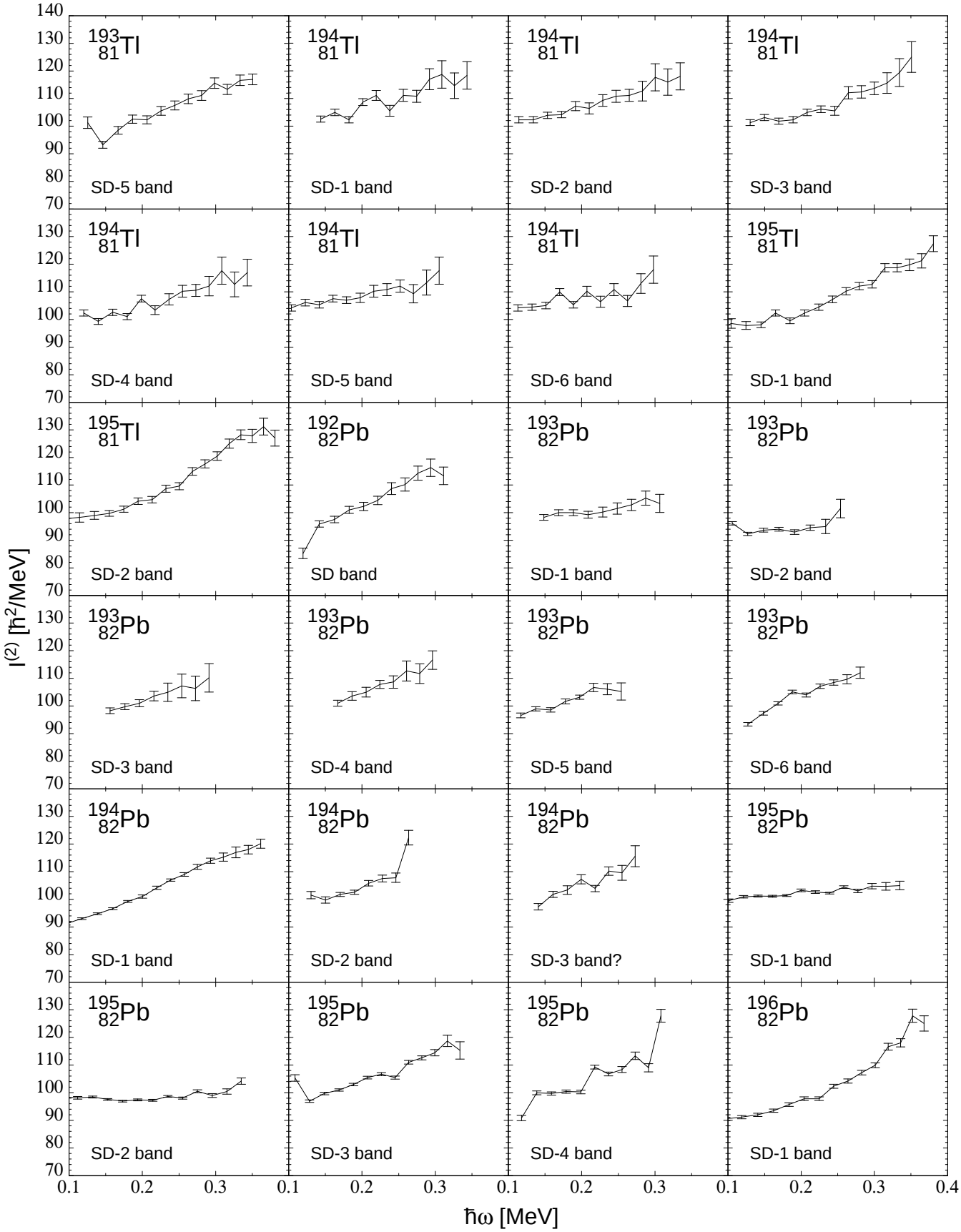

150 64 Gd
SD-4 band
150 64 Gd
SD-5 band
145 65 Tb
SD band
150 65 Tb
SD-1 band
150 65 Tb
SD-2 band
150 65 Tb
SD-3 band
151 65 Tb
SD-1 band
151 65 Tb
SD-2 band
151 65 Tb
SD-3 band
151 65 Tb
SD-4 band
151 65 Tb
SD-5 band
151 65 Tb
SD-6 band
151 65 Tb
SD-7 band
151 65 Tb
SD-8 band
152 65 Tb
SD-1 band
152 65 Tb
SD-2 band
151 66 Dy
SD-1 band
151 66 Dy
SD-2 band
151 66 Dy
SD-3 band
151 66 Dy
SD-4 band
151 66 Dy
SD-5 band
152 66 Dy
SD-1 band
152 66 Dy
SD-2 band
152 66 Dy
SD-3 band
I(2) [ħ2/MeV]
ħω [MeV]

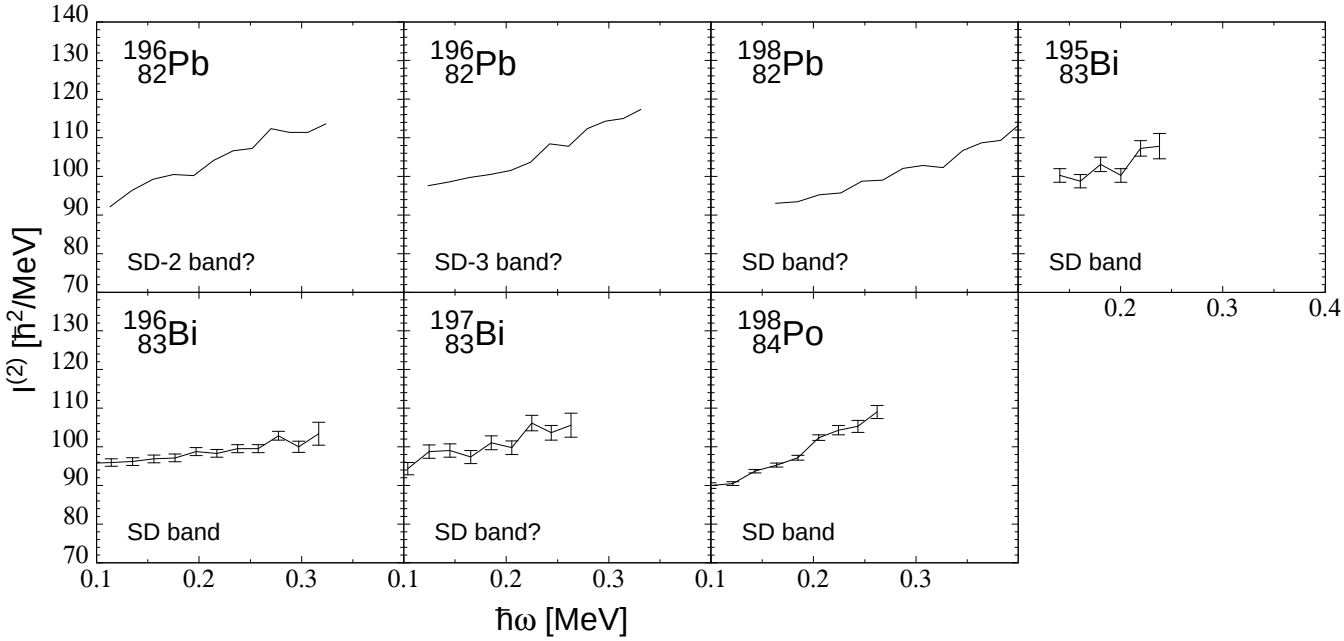
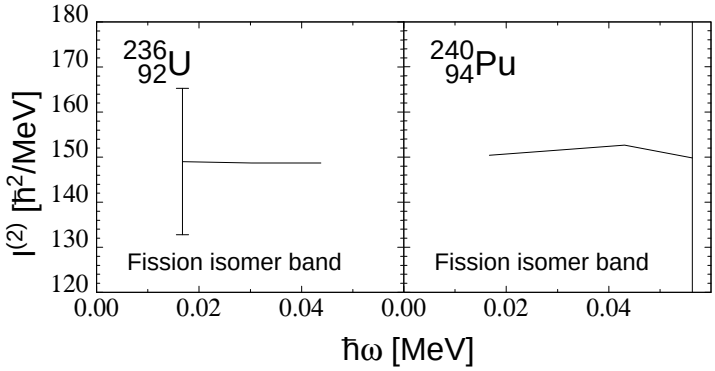


Region IV: A=189 -198




192 80 Hg
SD-1 band
192 80 Hg
SD-2 band
192 80 Hg
SD-3 band
193 80 Hg
SD-1 band
193 80 Hg
SD-2 band
193 80 Hg
SD-3 band
193 80 Hg
SD-4 band
193 80 Hg
SD-5 band
193 80 Hg
SD-6 band
194 80 Hg
SD-1 band
194 80 Hg
SD-2 band
194 80 Hg
SD-3 band
191 81 Tl
SD-1 band
191 81 Tl
SD-2 band
192 81 Tl
SD-1 band
192 81 Tl
SD-2 band
192 81 Tl
SD-3 band
192 81 Tl
SD-4 band
192 81 Tl
SD-5 band
192 81 Tl
SD-6 band
193 81 Tl
SD-1 band
193 81 Tl
SD-2 band
193 81 Tl
SD-3 band
193 81 Tl
SD-4 band
I(2) [ħ2/MeV]
ħω [MeV]


193 81 Tl
SD-5 band
194 81 Tl
SD-1 band
194 81 Tl
SD-2 band
194 81 Tl
SD-3 band
194 81 Tl
SD-4 band
194 81 Tl
SD-5 band
194 81 Tl
SD-6 band
195 81 Tl
SD-1 band
195 81 Tl
SD-2 band
192 82 Pb
SD band
193 82 Pb
SD-1 band
193 82 Pb
SD-2 band
193 82 Pb
SD-3 band
193 82 Pb
SD-4 band
193 82 Pb
SD-5 band
193 82 Pb
SD-6 band
194 82 Pb
SD-1 band
194 82 Pb
SD-2 band
194 82 Pb
SD-3 band?
195 82 Pb
SD-1 band
195 82 Pb
SD-2 band
195 82 Pb
SD-3 band
195 82 Pb
SD-4 band
196 82 Pb
SD-1 band
I(2) [ħ2/MeV]
ħω [MeV]



Region V: A>200