

Processing MF-32 and the scattering radius with ERRORJ D. Rochman

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November 18, 2008

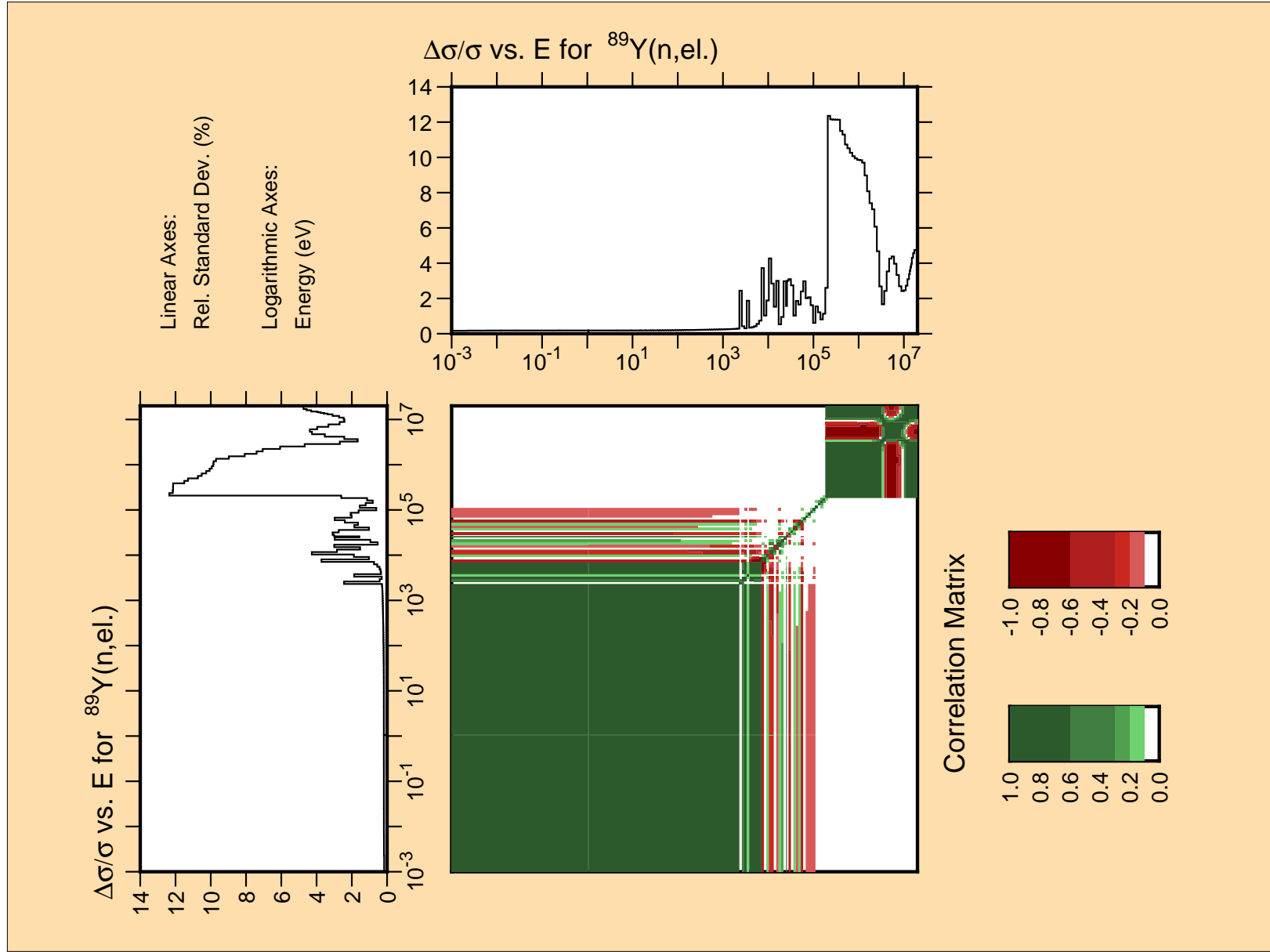
- ① The latest released version of ERRORJ (included in NJOY) does not treat R' (scattering radius)
- ② Consequence: The (n,el) and (n,tot) uncertainties in the thermal range are underestimated
- ③ “Trick” in ENDF/B-VII.0 to bypass this problem in ^{99}Tc , ^{89}Y and $^{191,193}\text{Ir}$
- ④ Same “trick” in SG-26 covariance files
- ⑤ But it implies “fake” cross-correlation between elastic and total cross sections
- ⑥ Go Shiba changed in October 2008 ERRORJ so that it can process R'
- ⑦ Small format modification

Format change



1.725000+7	1.00000-19	1.775000+7	1.00000-19	1.825000+7	1.00000-19	3925	6849	781
1.875000+7	1.00000-19					3925	6849	782
						3925	6	099999
						3925	0	0
3.908900+4	8.814211+1	0	0	1		0392532151		1
3.908900+4	1.000000+0	0	0	1		0392532151		2
1.000000-5	2.010000+5	1	3	0		1392532151		3
5.000000-1	6.740000-1	0	1	0		0392532151		4
8.814210+1	6.000000-3	0	0	1		0392532151		5
0.000000+0	0.000000+0	3	0	163875		190392532151		6
-2.510000+2	1.000000+0	3.209788+0	1.260000-1	0.000000+0	0.000000+0	0392532151		7
2.598000+3	1.000000+0	8.533333-1	1.310000-1	0.000000+0	0.000000+0	0392532151		8
7.498000+3	0.000000+0	6.520000+1	1.160000-1	0.000000+0	0.000000+0	0392532151		9
1.159200+4	0.000000+0	6.200000+1	5.420000-1	0.000000+0	0.000000+0	0392532151		10
1.378400+4	1.000000+0	1.866667+0	1.090000-1	0.000000+0	0.000000+0	0392532151		11
1.523300+4	0.000000+0	5.880000+1	9.200000-2	0.000000+0	0.000000+0	0392532151		12

Examples 1



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