

Memo 4C-3/99

To: Distribution

28 May 1974

From: H.D. Lemmel HDL

Subject: Cinda  
Proposed new quantity-sort for CINDA 75

As requested by Nigel Tubbs during the recent 4C-Meeting, I am re-submitting a proposal for an improved Cinda-quantity sort. It was agreed that an improved quantity sort should possibly be used in the book CINDA 75.

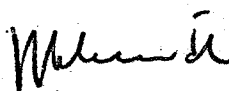
The proposed general sequence is according to increasing mass of the outgoing particles: elastic, inelastic, gammas out, neutrons out, charged particles out, fission. The same general sequence had been adopted earlier for Wrenda and the quantities dictionary (no. 14) in Exfor.

Details are, of course, debatable. In particular, the option may be considered to collect the resonance-integral quantities and sort them after the resonance parameters as it was preferred in Wrenda. Any other proposals are welcome.

(Note: The present proposal is the same as was included in my letter of 25 Oct 1972 to H. Goldstein with copies to Cinda Centers, with the only exception that resonance parameters are now proposed to be sorted rather at the end of the list, since this is the sort meanwhile adopted for Wrenda.)

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Proposed new sort of  
CINDA QUANTITIES

The first column gives an internal sorting value for which, in the NDCC program, two digits are available. With few exceptions only odd-numbered sorting values are used so that a new quantity-code could be inserted almost everywhere should it be needed.

1. EVL	Evaluation	45. NP	(n,p)
3. TOT	Total	47. NNP	(n,np)
5. SEL	Elastic	49. ND	(n,d)
7. DEL	Diff Elastic	51. NND	(n,nd)
9. POL	Polarization	53. NT	(n,t)
11. POT	Potntal Scat	55. NNT	(n,nt)
13. SIN	Tot Inelastc	57. NHE	(n,He3)
15. DIN	Diff Inelast	59. NA	(n, $\alpha$ )
17. TSL	Thermal Scat	61. NNA	(n,n $\alpha$ )
19. SCT	Scattering	63. NF	Fission
21. SNE	Nonelastic	65. RIF	Res Int Fis
22. REM	Disappearanc*	67. ALF	Alpha
23. ABS	Absorption	69. ETA	Eta
25. RIA	Res Int Abs	71. NU	Nu
27. ACT	Activation *	73. NUD	Delayd Neuts
28. RIR	Res Int Act *	75. NUF	Frag Neuts
29. NG	(n, $\gamma$ )	77. SFN	Spect Fiss N
31. RIG	Res Int Capt	79. SFG	Spect Fiss $\gamma$
33. SNG	Spect (n, $\gamma$ )	81. FPG	Fiss Prod
35. DNG	Inelastic $\gamma$	83. NFY	Fiss Yield
37. NEG	Nonelastic $\gamma$	85. FRS	Frag Spectra
39. N2N	(n,2n)	87. CHG	Frag Charge
41. N3N	(n,3n)	89. RES	Reson Params
43. NEM	n Emission	91. STF	Strnth Fncn
44. NPR	n Production*	93. LDL	Lvl Density
		=====	
		95. GN	Photo-Fissn
		97. GF	( $\gamma$ ,n)

\* = quantities dying out