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To: Distribution
From: OTSUKA Naohiko
Subject: AKE and KE (Response to Action 25 of 2005 NRDC meeting)

According to Action 25 of the 2005 NRDC meeting, the usage of parameter codes AKE (Averaged kinetic energy) and KE (Kinetic energy) has been investigated to check the difference between them. On the assumption that

- AKE is averaged kinetic energy without specification of mass and atomic number, therefore SF4 is blank, and SF7 is blank or *F.
  e.g. `SF1(SF2,F),,AKE,FF` `SF1(SF2,F),,AKE,LF` `SF1(SF2,F),,AKE,HF`

- KE is averaged kinetic energy for fixed mass and/or atomic number specified in SF4 or SF7, therefore SF4 is not blank or SF7 is particle code (like `N`).
  e.g. `SF1(SF2.F)MASS,,KE` `SF1(SF2,F)ELEM,,KE` `SF1(SF2,F),,KE,N`

, numbers of subentries are investigated.

	Total #	SF4≠blank	SF4=blank		
			SF7=N	SF7=*F	Others
AKE	496	68 (13.7%)	89 (17.9%)	306(61.7%)	33 (6.7%)
KE	74	13 (17.6%)	0	57 (77.0%)	4 (5.4%)

We cannot see clear difference between AKE and KE. Therefore I propose to keep AKE in the future unless there is a criterion which can define the proper usage of two codes keeping consistency with the existing subentries.

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