# BROOKHAVEN NATIONAL LABORATORY

# MEMORANDUM

CP-C/149

DATE: September 4, 1985

TO: Distribution

FROM: V. McLane

SUBJECT: EMS-SEC, MOM-SEC

Reference: Memo CP-D/129, CP-M/7

Enclosed are proposed EXFOR Manual updates for EMS-SEC and MOM-SEC. We are still waiting to receive the LEXFOR definitions of these quantities from CDFE. Since I am not clear on the usage, I will wait until these are received to update Chapter 6.

I would also like to propose adding the family codes L for secondary linear momentum and S for effective mass squared.

Charles L. Dunford

VMcL:anl
Enclosure

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| | |
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d/f:10.3.1/CP-C/CP-149

<u>EMS-SEC</u>

1. This keyword is used to give information about secondary effective mass, and to define secondary-mass fields given in the data table.

2. This keyword is, in general, optional, but is obligatory when the Data-heading Keywords EMS1, EMS2, etc., are used in the data. Free text may be given or coded information, with or without free text.

3. The format of the coded information is:

   (heading, particle)

   <u>Heading</u> <u>Field</u>. This field contains the data heading or the root of the data heading to be defined. By root is meant that the data heading given will also define the same heading followed by -MIN, -MAX or -APRX.

   <u>Particle</u> <u>Field</u>. This field contains the particle or nuclide to which the data heading keyword refers. The code is:

   <u>either</u> a particle-code from Dictionary 13.
      <u>or</u> a nuclide coded in the standard format as described on page 8.2.

4. In the case of more than one effective mass Data-Heading Keyword to be defined, each must be coded separately, starting in column 12.

   Example:    EMS-SEC    (EMS1,D)
                          (EMS2,A)

<u>MOM-SEC</u>

1. This keyword is used to give information about secondary linear momentum, and to define secondary-momentum fields given in the data table.

2. This keyword is, in general, optional, but is obligatory when the Data-heading Keywords M1, M2, etc., are used in the data. Free text may be given or coded information, with or without free text.

3. The format of the coded information is:

   (heading, particle)

   <u>Heading Field</u>. This field contains the data heading or the root of the data heading to be defined. By root is meant that the data heading given will also define the same heading followed by -MIN, -MAX or -APRX.

   <u>Particle Field</u>. This field contains the particle or nuclide to which the data heading keyword refers. The code is:

   <u>either</u> a particle-code from Dictionary 13.
   <u>or</u> a nuclide coded in the standard format as described on page 8.2.

4. In the case of more than one linear-momentum Data-Heading Keyword to be defined, each must be coded separately, starting in column 12.

   Example:    MOM-SEC    (M1,D)
                          (M2,A)