

ADAS Subroutine d7cors

SUBROUTINE D7CORS (INZO, INZ, CORRS, CORRAD, CORRAR, CORRGA, LABEL)
IMPLICIT REAL*8 (A-H, O-Z)

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C PURPOSE: CORRECT EX90 OUTPUT TO BETTER DATA. FOR A GIVEN
C ISO-ELECTRONIC SEQUENCE, USES INTERPOLATION BETWEEN VALUES OF
C ZO.

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C INPUT PARAMETERS:

C INZO - ATOMIC MASS OF ION

C INZ - CHARGE OF RECOMBINED ION

C OUTPUT PARAMETERS:

C CORRS - MULTIPLICITIVE CORRECTION FACTOR FOR IONISATION

C CORRAD - MULTIPLICITIVE CORRECTION FACTOR FOR DI-EL. RECOM.

C CORRAR - MULTIPLICITIVE CORRECTION FACTOR FOR RAD. RECOM.

C CORRGA - MULTIPLICITIVE CORRECTION FACTOR FOR GA0 OF RAD.

C RECOM. APPROXIMATE FORM

C LABEL - DETAILS OF CORRECTION DATA SOURCE

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C NOTES:

C (1) SEQREP (ISEQ) RETURNS NO. OF ELECTRONS IN SEQUENCE ISEQ

C (2) NZO IS MAXIMUM NO. OF ZO'S REPRESENTING A SEQUENCE

C (3) NZOREP (ISEQ) RETURNS NO. OF ZO'S REPRESENTING A PARTICULAR
C SEQUENCE

C (4) ZOREP (ISEQ, IZO) CONTAINS SET OF REPRESENTATIVE ZO'S

C (5) DATA FOR ZOREP = 1,100 IS DUMMY. SET EQUAL TO VALUES AT
C THE PROPER ENDS OF THE DATA. (E.G. AT ZO = 4,27)

C

C***** W.J.DICKSON JET 9/1/90 *****

C** PE BRIDEN 19AUG94 - MADE ALL REAL NUMBERS 8 BYTE INSTEAD OF 4 BYTE

C UNIX-IDL PORT:

C WILLIAM OSBORN, TESSELLA SUPPORT SERVICES PLC.

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C DATE: 22ND APRIL 1996

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C VERSION: 1.1 DATE: 22-04-96

C MODIFIED: WILLIAM OSBORN

C - FIRST VERSION. NO CHANGES TO IBM CODE.

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C VERSION: 1.2 DATE: 16-05-07

C MODIFIED: ALLAN WHITEFORD

C - UPDATED COMMENTS AS PART OF SUBROUTINE DOCUMENTATION

C PROCEDURE

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CHARACTER*40

LABEL

INTEGER

INZ,

INZO

REAL*8

CORRAD,

CORRAR,

CORRGA,

CORRS