

ADAS Subroutine dxcomp

C UNIX-IDL PORT - SCCS INFO: MODULE @(#)dxcomp.for 1.1 DATE 08/20/96

 SUBROUTINE DXCOMP(NOCCUM , NOCCUP , LMATCH , IORBIT)

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C
C ***** FORTRAN 77 SUBROUTINE: DXCOMP *****
C
C PURPOSE: COMPARES PARENT AND RECOMBINE ION METASTABLE CONFIGURATION
C EXPANDED ORBITAL VECTORS. RETURNS .TRUE. IF ONE DIFFERENCE
C AND GIVES DIFFERING ORBITAL.
C
C CALLING PROGRAM: D7LINK
C
C SUBROUTINE:
C
C INPUT : (I*4) NOCCUM() = OCCUPANCY FOR EACH DECIMAL ORBITAL
C INDEX 1-15 OF RECOMBINED ION METASTABLE
C INPUT : (I*4) NOCCUP() = OCCUPANCY FOR EACH DECIMAL ORBITAL
C INDEX 1-15 OF PARENT METASTABLE
C
C OUTPUT : (L*4) LMATCH = .TRUE. => ONE ORBITAL DIFFERENCE
C .FALSE. => 0 OR >1 MISMATCH
C OUTPUT : (L*4) IORBIT = DECIMAL ORBITAL INDEX FOR MISMATCH
C
C (I*4) I = GENERAL INDEX
C
C ROUTINES: NONE
C
C
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C JA8.08
C TEL. 0141-553-4196
C
C DATE: 05/06/96
C
C UNIX-IDL PORT:
C WILLIAM OSBORN, TESSELLA SUPPORT SERVICES PLC.
C
C DATE: 20TH AUGUST 1996
C
C VERSION: 1.1 DATE: 20-08-96
C MODIFIED: WILLIAM OSBORN
C - FIRST VERSION
C
C VERSION: 1.2 DATE: 22-11-2003
C MODIFIED: Martin O'Mullane
C - Extend NOCCUM and NOCCUP to 61 (from 15).
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C
C INTEGER IORBIT, NOCCUM(61), NOCCUP(61)
C LOGICAL LMATCH