

## ADAS Subroutine bddrsm2

```
SUBROUTINE BDDRSM2( NDREP , NDT ,  
&                   MAXTM , IREPMAX, IREP , DRMF , DRMS ,  
&                   EIJN   , PWTEMP   )  
IMPLICIT REAL*8 (A-H,O-Z)
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C-----  
C  
C ***** FORTRAN 77 SUBROUTINE: BDDRSUM *****  
C  
C   VERSION   2.0  
C  
C   AUTHOR:   WILLIAM J. DICKSON  
C             JET JOINT UNDERTAKING  
C  
C   DATE:     14TH DECEMBER 1992  
C  
C  
C   PURPOSE:  
C   -----  
C           TO SUM BADNELL DIELECTRONIC RATE COEFFICIENT DATA OVER THE  
C           REPRESENTATIVE SET TO GIVE ZERO DENSITY TOTAL AND  
C           RADIATED POWER FROM SATELLITE LINES  
C  
C           CALLING PROGRAM BDMNCLT  
C  
C  
C   INPUT:  
C   -----  
C   NDREP      - MAXIMUM NUMBER OF REPRESENTATIVE LEVELS  
C   NDT        - MAXIMUM NUMBER OF TEMPERATURES  
C   DRMF(,)    - BADNELL DIELECTRONIC DATA  
C               1ST INDEX  - REPRESENTATIVE LEVEL  
C               2ND INDEX  - TEMPERATURE  
C   NBT        - NO OF TEMPERATURES  
C   IREPMAX    - NO OF REPRESENTATIVE LEVELS  
C   IREP       - SET OF REPRESENTATIVE LEVELS  
C   EIJN()     - SAT. ENERGY AS A FUNCTION OF REPRESENTATIVE LEVEL  
C               UNITS - KELVIN  
C  
C   OUTPUT:  
C   -----  
C   DRMS()     - SUMMED DR RATE COEFFICIENTS  
C               1ST INDEX  - TEMPERATURE  
C  
C   PWTEMP()   - SAT. RADIATED POWER (UNITS ERG S-1 CM3)  
C               1ST INDEX  - TEMPERATURE  
C  
C  
C   UPDATE:  
C   -----  
C   15/12/92   REVISED ALGOROITHM HAS BETTER AGREEMENT WITH  
C             INTERNAL SUM CALCULATED BY MAINCL  
C-----  
C
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C UNIX-IDL CONVERSION:

C

C VERSION: 1.1

DATE: 22-08-96

C MODIFIED: WILLIAM OSBORN

C - FIRST CONVERTED. NO CHANGES.

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C

INTEGER	IREP (NDREP), IREP MAX,	MAX TM,	NDREP
INTEGER	NDT		
REAL*8	DRMF (NDREP, NDT),	DRMS (NDT)	
REAL*8	EIJN (NDREP), PWTEMP (NDT)		