

## ADAS Subroutine d7pyvr

SUBROUTINE D7PYVR(Y,Z1,PY)

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C
C ***** FORTRAN77 SUBROUTINE: D7PYVR *****
C
C PURPOSE : CALCULATES VAN REGEMORTER'S P FACTOR FOR ELECTRON
C           COLLISIONS WITH ATOMS AND IONS.
C
C INPUT   : Y=ATE*(1/V1**2+1/V2**2) WITH
C           ATE - 1.5789D5*Z1**2/TE
C           TE  - ELECTRON TEMPERATURE (K)
C           V1  - INITIAL EFFECTIVE PRINCIPAL QUANTUM NUMBER
C           V2  - FINAL EFFECTIVE PRINCIPAL QUANTUM NUMBER
C           Z1  - TARGET ION CHARGE +1
C
C OUTPUT  : PY - P-FACTOR
C
C
C AUTHOR  : H.P. SUMMERS, JET
C           K1/1/57
C           JET EXT. 4941
C
C DATE:    03/06/94
C
C UNIX-IDL PORT:
C   WILLIAM OSBORN, TESSELLA SUPPORT SERVICES PLC.
C
C DATE:    22ND APRIL 1996
C
C VERSION: 1.1 DATE: 22-04-96
C MODIFIED: WILLIAM OSBORN
C   - FIRST VERSION. NO CHANGES TO IBM CODE.
C-----
C
REAL*8          PY,          Y,          Z1
```