

## ADAS Subroutine sigma

SUBROUTINE SIGMA

IMPLICIT REAL\*8 (A-H,O-Z)

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C  
C   PURPOSE: Calculates <SIGMA*V> or SIGMA*V rates for collisional  
C             excitation by proton or electron impact  
C-----  
C  
C ADAS305 version. Developed from JETSHP.STARK.FORT (H P Summers).  
C  
C VERSION   : 1.1  
C DATE      : 24-02-2005  
C MODIFIED  : Martin O'Mullane  
C             - First version.  
C  
C VERSION   : 1.2  
C DATE      : 24-10-2005  
C MODIFIED  : Martin O'Mullane  
C             - Change MK(66) to BK(66) to maintain maning and  
C             size of ADAT common block.  
C  
C VERSION   : 1.3  
C DATE      : 16-05-2007  
C MODIFIED  : Allan Whiteford  
C             - Updated comments as part of subroutine documentation  
C             procedure.  
C-----
```