ADAS Subroutine r8giiav

function r8giiav(u, u2, n0)

```
C-----
С
C ******* FORTRAN77 REAL*8 FUNCTION: R8GIIAV ****************
С
C PURPOSE: CALCULATE AVERAGED FREE-BOUND GAUNT FACTOR FOR SUMMED
C CONTRIBUTIONS OF THE HIGH LYING STATES - SUMMERS AND HOOPER EQU. 19
С
C INPUT
С
  U=HV/IH WHERE HV IS PHOTON ENERGY
С
            AND IH IS THE RYDBERG ENERGY
    U2=K*TE/IH WHERE TE IS THE ELECTRON TEMPERATURE
С
С
              AND K IS THE BOLTZMANN CONSTANT
  NO
С
            IS THE FIRST LEVEL TO BE COUNTED IN THIS
С
            QUASI-CONTINUUM
C OUTPUT
С
  GIIAV=AVERAGED FREE-BOUND GAUNT FACTOR.
С
С
C AUTHOR : L D Horton
C DATE : 24-06-1997
С
С
C VERSION : 1.1
C DATE : 02-03-2005
C MODIFIED : Martin O'Mullane
С
           - First version in central ADAS.
С
C VERSION : 1.3
C DATE : 10-04-2007
C MODIFIED : Allan Whiteford
С
            - Modified documentation as part of automated
C subroutine documentation preparation.
С
C-----
    INTEGER
                    ΝO
    REAL*8
                    U,
                              U2
```