## **ADAS Subroutine ngffmh**

REAL\*8 FUNCTION NGFFMH(GAM2)
IMPLICIT REAL\*8(A-H,O-Z)

```
С
C ******* FORTRAN77 SUBROUTINE: NGFFMH **********************
С
C VERSION: 1.0
C PURPOSE: EVALUATES ELECTRON TEMPERATURE AND FREQUENCY AVERAGED
         HYDROGENIC FREE FREE GAUNT FACTOR.
С
С
C OBTAINED FROM INTERPOLATION OF KARZAS & LATTER (1959) FIG.6
C FOR -3<LOG10(Z0*Z0*IH/KTE)<1. OUTSIDE THIS RANGE A VERY APPROXIMATE
C EXTRAPOLATION IS PERFORMED WITH GFFMH=1 IN THE INFINITE LIMITS.
С
C INPUT:
C GAM2=Z0*Z0*IH/KTE
C OUTPUT:
C NGFFMH=MAXWELL AND FREQUENCY AVERAGED FREE-FREE GAUNT FACTOR.
C ****** H.P.SUMMERS, JET 12 JAN 1987 ***********
C UNIX-IDL CONVERSION:
С
C VERSION: 1.1
                                  DATE: 22-08-96
C MODIFIED: WILLIAM OSBORN
С
             - FIRST CONVERTED. NO CHANGES.
С
C VERSION: 1.2
                                  DATE: 13-09-99
C MODIFIED: Martin O'Mullane
С
   - Define function name as real *8.
C VERSION: 1.3
                                 DATE: 16-05-07
C MODIFIED: Martin O'Mullane
С
             - Modified comments as part of subroutine documentation
С
               procedure.
C-----
    REAL*8
                     GAM2
```