ADAS Subroutine abinew

FUNCTION ABINEW (OA, YA, FA, A, B, N) С IMPLICIT REAL *8 (A-H, O-Z) CC C ********** FORTRAN77 FUNCTION: ABINEW ******************* C-----C PURPOSE: EVALUATE INNER INTEGRALS FOR RATE COEFFICIENTS. С C ABINEW IS CALLED BY QH & QHE. THE PROCEDURES ALLOW FOR PROJECTILE C AND TARGET MASSES. С C INPUT С OA=VECTOR OF CROSS-SECTIONS (CM2) С YA=VECTOR OF REDUCED RELATIVE SPEEDS. 1ST VALUE IS AT THRESHOLD FA=VECTOR OF ALPHAS (12TH VALUE IS FOR EXTRAPOLATION, PROVIDED С С EXPLICITLY. EXTRAPOLATION BELOW YA(1) IS BASED ON FA(1)) С N.B. OA(1) MUST BE NON-ZERO. С (OA, YA AND FA ARE OF FIXED LENGTH =24) С С A=LOWER INTEGRAL LIMIT С B=UPPER INTEGRAL LIMIT С N=NUMBER OF CROSS-SECTIONS C OUTPUT С ABINEW=DEFINITE INTEGRAL. С C ****** H.P. SUMMERS, JET С ****** C ******* 15 JUL 1991 REORDER EVAL AT С LABEL 50 С C NOTES: THIS ROUTINE IS NOT YET PROPERLY ANNOTATED C UNIX-IDL PORT: C VERSION: 1.1 DATE: 16-1-96 C MODIFIED: TIM HAMMOND (TESSELLA SUPPORT SERVICES PLC) С - FIRST VERSION С C VERSION: 1.2 DATE: 16-05-07 C MODIFIED: Allan Whiteford - Updated comments as part of subroutine documentation С С procedure. C INTEGER Α, B, FA(24), OA(24) REAL*8

YA(24)

REAL*8