ADAS Subroutine abi

FUNCTION ABI (OA, YA, FA, A, B, N) С IMPLICIT REAL *8 (A-H, O-Z) CC C ********** FORTRAN77 FUNCTION: ABI ******************** C-----C PURPOSE: EVALUATE INNER INTEGRALS FOR RATE COEFFICIENTS. С C ABI IS CALLED BY QHIOCH. THE PROCEDURES ALLOW FOR PROJECTILE C AND TARGET MASSES. С C ****** H.P. SUMMERS, JET 18 FEB 1987 ********** C INPUT С OA=VECTOR OF CROSS-SECTIONS (CM2) YA=VECTOR OF REDUCED RELATIVE SPEEDS. 1ST VALUE IS AT THRESHOLD С С FA=VECTOR OF ALPHAS (12TH VALUE IS FOR EXTRAPOLATION, PROVIDED EXPLICITLY. EXTRAPOLATION BELOW YA(1) IS BASED ON FA(1)) С С N.B. OA(1) MUST BE NON-ZERO. С (OA, YA AND FA ARE OF FIXED LENGTH =12) С С A=LOWER INTEGRAL LIMIT С B=UPPER INTEGRAL LIMIT N=NUMBER OF CROSS-SECTIONS С C OUTPUT С ABI=DEFINITE INTEGRAL. С C NOTES: THIS ROUTINE IS NOT YET PROPERLY ANNOTATED C UNIX-IDL PORT: С C VERSION: 1.1 DATE: 18-1-96 C MODIFIED: TIM HAMMOND (TESSELLA SUPPORT SERVICES PLC) С - PUT UNDER SCCS CONTROL C VERSION: 1.2 DATE: 16-05-07 C MODIFIED: Allan Whiteford C - Updated comments as part of subroutine documentation С procedure. C-----С Ν INTEGER B, FA(24), OA(24) REAL*8 Α,

YA(24)

REAL*8