

## ADAS Subroutine g4llev

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SUBROUTINE G4LLEV( LVA , LVF , NLVB, IND, NLVF, INDF , IFLAG )
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IMPLICIT REAL*8(A-H,O-Z)
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```
C***** FORTRAN77 ROUTINE: G4LLEV *****
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C PURPOSE:  Determines whether a particular transition belongs  
C           to the required set by checking the bound and free  
C           states against the level lists.
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C INPUT:
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C     LVA   - TEST BOUND LEVEL INDEX  
C     LVF   - TEST FREE LEVEL INDEX  
C     NLVB  - NO. OF BOUND STATES  
C     IND() - SET OF BOUND STATES  
C     NLVF  - NO. OF FREE STATES  
C     INDF() - SET OF FREE STATES
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C OUTPUT:
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C     IFLAG - = 0, LVA AND LVF DO NOT BELONG TO IND, INDF  
C           = 1, LVA AND LVF DO BELONG TO IND, INDF
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```
C VERSION : 1.1
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```
C DATE    : 15/09/2000
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```
C MODIFIED : Martin O'Mullane
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C           First version.
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C VERSION : 1.2
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```
C DATE    : 16/05/2007
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C MODIFIED : Martin O'Mullane
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```
C           - Updated comments as part of subroutine  
C           documentation production.
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INTEGER          IFLAG,      IND (NDLEV),  INDF (NDLEV),  LVA  
INTEGER          LVF,        NLVB,         NLVF
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