

## Operator MODI\_BASE\_MODALÉ

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### 1 Goal

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To define the modal base of a structure under flow. This base is obtained after a calculation of coupling fluid-rubber band carried out using the operator `CALC_FLUI_STRU` [U4.66.02]. The produced concept is of type `mode_meca`.

## 2 Syntax

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```
mode [mode_meca] = MODI_BASE_MODALÉ (
    ♦ BASE = mode, [mode_meca]
    ♦ BASE_ELAS_FLUI = bef, [melasflu]
    ♦ NUME_VITE_FLUI = numv, [I]
    ◇ NUME_ORDRE = l_nuor, [l_I]
    ◇ / AMOR_REDUIT = l_amor, [l_R]
    / AMOR_UNIF = amor, [R]
    ◇ INFORMATION = / 1 [DEFECT]
    / 2, [I]
    ◇ TITLE = title, [TXM]
)
```

## 3 Operands

◆ BASE = mode

Concept of the type [mode\_meca] who defines the modal characteristics before taking into account of the coupling fluid-rubber band. According to the choice of the user, the operator modifies this concept of entry or creates a new concept of the type [mode\_meca].

◆ BASE\_ELAS\_FLUI = bef

Concept of the type [melasflu] who defines the new characteristics of the modes taken into account for the coupling fluid-rubber band, for various rates of flow.

◆ NUME\_VITE\_FLUI = numv

Allows to point on the characteristics of the modes taken into account for the coupling fluidelastic, a rate of flow given.

◇ NUME\_ORDRE = l\_nuor

If one modifies the concept of entry of the type [mode\_meca] : list of the sequence numbers of the nondisturbed modes to which one wishes to affect a reduced damping.

If one creates a new concept of the type [mode\_meca] at exit: list of the sequence numbers of the nondisturbed modes which are actually retained to rebuild the modal base. The possibility of affecting a damping reduced to these modes is maintained, while resorting to the operands AMOR\_REDUIT or AMOR\_UNIF below.

**Note:**

*By default, one selects all the modes which were not taken into account for the coupling fluid-rubber band. Not to give in this list of the sequence numbers corresponding to the coupled modes.*

*The constitution of [mode\_meca] result according to the choices for the operands NUME\_ORDRE, AMOR\_REDUIT and AMOR\_UNIF is specified in paragraph [§1].*

◇ / AMOR\_REDUIT = l\_amor

List of the reduced depreciation assigned to the nondisturbed modes.

/ AMOR\_UNIF = amor

Affected reduced damping identically with the nondisturbed modes.

◇ INFORMATION = 1 or 2

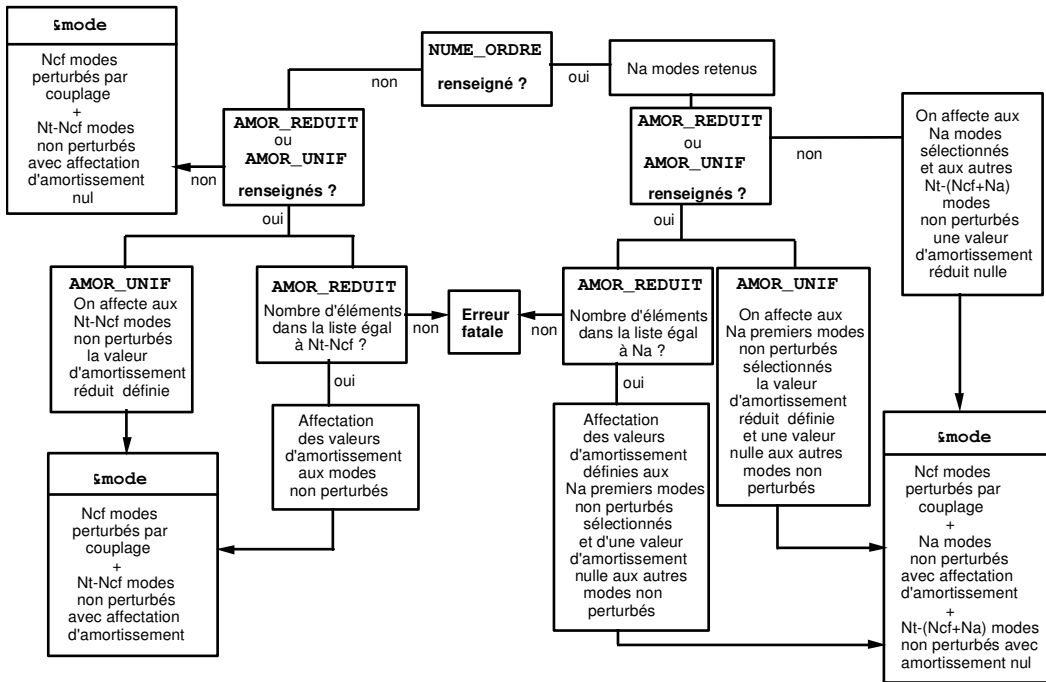
Operand inactivates. To obtain the impression of the results, the order should be used IMPR\_RESU [U4.91.01].

◇ TITLE = title

Argument of type text [TXM] defining the title attached to the concept [mode\_meca] at exit.

## 4 Precise details for the use: contents of the concept [mode\_meca] result

### MODIFICATION DU CONCEPT D'ENTREE PAR MODI\_BASE\_MODAL



### CREATION D'UN NOUVEAU CONCEPT PAR MODI\_BASE\_MODAL

