

## Operator REST\_MODE\_NONL

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### 1 Goal

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The operator `REST_MODE_NONL` allows to restore in the temporal field or the field of Fourier a periodic solution resulting from a calculation with `MODE_NON_LINE`.

This operator produces a concept of the type `dyna_trans` (in the temporal field) or `mode_meca` (in the field of Fourier).

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## 2 Syntax

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```
resu_out = REST_MODE_NONL (
  ♦ MODE_NON_LINE = resu_in, [table_container]
  ♦ NUME_ORDRE = /num_ordr, [I]
  ◇ TYPE_RESU = /'DYNA_TRANS', [DEFECT]
                /'MODE_MECA'
# If keywords TYPE_RESU = 'DYNA_TRANS':
  ◇ NB_INST = /512, [DEFECT]
                /nbinst, [R]
)
```

## 3 Operands

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### 3.1 Keyword **MODE\_NON\_LINE**

◆ MODE\_NON\_LINE

`resu_in` Concept of the type `table_container` exit of a calculation with the operator `MODE_NON_LINE`.

### 3.2 Keyword **NUME\_ORDRE**

◆ NUME\_ORDRE

`num_ordr` indicate the sequence number of the periodic solution resulting from `resu_in` that one wishes to restore.

### 3.3 Keyword **TYPE\_RESU**

◆ TYPE\_RESU

If `TYPE_RESU = 'MODE_MECA'` then `resu_out` is a periodic solution in the field of Fourier.  
If `TYPE_RESU = 'DYNA_TRANS'` then `resu_out` is a periodic solution in the temporal field.  
By default, `TYPE_RESU = 'DYNA_TRANS'` .

### 3.4 Keyword **NB\_INST**

◆ NB\_INST

`nb_inst` is the desired discretization of the periodic solution, for a restitution in the temporal field (i.e. `TYPE_RESU = 'DYNA_TRANS'`). It should be noted that `nb_inst` must be a power of 2. By default, `nb_inst = 512`.