Operator **REST\_MODE\_NONL**

1 Goal

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

```python
resu_out = REST_MODE_NONL(
    MODE_NON_LINE = resu_in,
    [table_container]
    NUME_ORDRE = /num_ordr,
    [I]
    TYPE_RESU = /'DYNA_TRANS',
    /'MODE_MECA'
    [DEFECT]
)

# If keywords TYPE_RESU = ‘DYNA_TRANS’:
    NB_INST = /512,
    [DEFECT]
    /nbinst,
    [R]
```

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3 Operands

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.

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