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

```plaintext
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]
}
```

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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*.