Operator \texttt{REST\_MODE\_NONL}

1 Goal

The operator \texttt{REST\_MODE\_NONL} allows to restore in the temporal field or the field of Fourier a periodic solution resulting from a calculation with \texttt{MODE\_NON\_LINE}.

This operator produces a concept of the type \texttt{dyna\_trans} (in the temporal field) or \texttt{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`.

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