

ZZZZ392 – Validation concept mode_meca resulting from CREA_RESU for COMB_SISM_MODAL/MODE_CORR

Summary:

This test does not have any physical meaning, it is primarily a data-processing test.

It aims to validate the keyword `AXIS` of `CREA_RESU/AFFE`. This keyword having for goal to be able to provide to the operand `MODE_CORR` of `COMB_SISM_MODAL` a concept `mode_meca` resulting from `CREA_RESU` instead of a concept `mode_meca` resulting from `MODE_STATIQUE`.

Modeling a:

The principle of the test is the following: using the operator `CREA_CHAMP`, one extracts the field from displacement of a concept `mode_meca` resulting from `MODE_STATIQUE` (there are 3 sequence numbers corresponding each one to a direction of space). A concept is created `mode_meca` starting from the field extracts with `CREA_RESU`, by informing the keyword `AXIS` of `AFFE`. It takes the value `X` for the first sequence number, `Y` for the second and `Z` for the third.

For the 3 directions of space, one call twice the operator `COMB_SISM_MODAL`, first once by informing the concept resulting from `MODE_STATIQUE` with `MODE_CORR`, this calculation being used as reference and a second time with the concept resulting from `CREA_RESU`. It is checked that one gets the same results as in the first.

It is specified that the second calculations do not function without informing the keyword `AXIS` of `CREA_RESU/AFFE`.

This documentation is voluntarily brief.