Operator PROJ_MATR_BASE

1 Goal

To project a matrix assembled on a base of mechanical clean modes or a basis of RITZ. The projected matrix result will be used by the calculation algorithms in generalized components (DYNA_TRAN_MODAL [U4.53.21] for example).

One can use PROJ_BASE [U4.63.11] to treat several matrices simultaneously.

Product a concept stamps generalized of type matr_asse_gene_R if the matrix assembled to project is of type matr_asse_depl_R or of type matr_asse_gene_R.

Product a concept stamps generalized of type matr_asse_gene_C if the matrix assembled to project is of type matr_asse_depl_C or of type matr_asse_gene_C.

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2 Syntax

```
matgene [matr_asse_gene_X] = PROJ_MATR_BASE

                  (  ♦  BASE = Ba,                    /  [mode_meca]
                                                      /  [mode_gene]

                     ♦  NUME_DDL_GENE =  nu_gene,        [nume_ddl_gene]

                     ♦  /  MATR_ASSE =  my,              [matr_asse_DEPL_X]

                        /  MATR_ASSE_GENE = my,          [matr_asse_gene_X]

                  )
```

X = R or C

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3 Operands

3.1 Operand BASE

♦ BASE = Ba

Concept of the type mode_meca or mode_gene (for under - structuring) which contains the vectors defining the subspace of projection.

3.2 Operand NUME_DDL_GENE

♦ NUME_DDL_GENE = nu_gene

Classification associated with the generalized model.

3.3 Operands MATR_ASSE / MATR_ASSE_GENE

♦ / MATR_ASSE = my

Concept of the type matr_asse_DEPL_R or matr_asse_DEPL_C, assembled matrix which one wishes to project.

/ MATR_ASSE_GENE = my

Concept of the type matr_asse_gene_R or matr_asse_gene_C, assembled matrix resulting from the under-structuring, which one wishes to project.

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