

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`.

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
```

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.