

ZZZZ304 – Projection of a field by elements ELNO discontinuous

Summary:

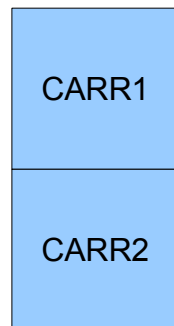
This test shows how to project a field by elements of the type ELNO discontinuous on a border to preserve discontinuity.

Modeling a:

- Modeling THERMICS/PLAN

1 Principle of the test

The structure is 2D. It is a formed square by 2 zones *CARR1* and *CARR2*.



This structure is with a grid 2 times *MA1* and *MA2*. The grids are different.

On *MA1*, one creates a field by elements ELNO of hydration (*CHI*).

On *CARR1* : *CHI* is worth 0.8

On *CARR2* : *CHI* is worth 0.2

One wants to project *CHI* on *MA2* to obtain *CH2* so that *CARR1* and *CARR2* the same values preserve.

The node *N36* is on the border of the grid *MA2*.

It belongs to the mesh *M9* of *CARR1*

It belongs to the mesh *M10* of *CARR2*

2 Validation

On the node *N36*, that one checks that the field is worth 0.8 on the mesh *M9* and 0.2 on the mesh *M10*.