

## ZZZZ304 – Projection of a field by discontinuous elements ELNO

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### Abstract:

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

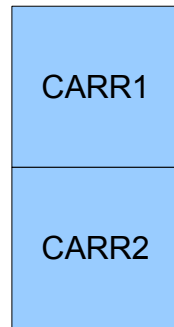
THERMAL modelization

- a: Modelization/PLANE

## 1 Principle of the test

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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 meshes are different.

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

On *CARR1* : *CHI* is worth 0.8

On *CARR2* : *CHI* one 0.2

is worth wants to project *CHI* on *MA2* obtaining *CH2* so that *CARR1* and *CARR2* preserve the same values.

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

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

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

## 2 Validation

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