

## ZZZZ306 – PROJ\_CHAMP/ECLA\_PG

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### Summarized:

This test validates the programming of the routines `ecla2d.f` and `ecla3d.f`. This programming is used by the features: MACR\_

- ECLA\_PG PROJ\_CHAMP
- /METHODE = "ECLA\_PG" Modelization

#### a: Tetrahedron

/FPG15 Hexahedron  
/FPG 27 Pentahedron  
/FPG21 Modelization

#### b: Tetrahedron

/FPG1 Hexahedron  
/FPG 8 Pentahedron  
/FPG6 Modelization

#### C: Tetrahedron

/FPG4 Modelization

#### D: /

FPG 3 SORTED SORTED  
/FPG 6 QUADS  
/FPG 4 QUADS  
/FPG 9 Principle

## 1 of the test For

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each modelization, the mesh is very simple: formed by 1 to 4 elements. One creates

an analytical field (CH1) on Gauss points of the elements using a formula depending on the coordinates. One  $(X, Y, Z)$  projects

then field (CH1) on the same mesh. What produces field (CH2). Validation

## 2 For

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each modelization, one TOUS tests the value of Gauss points diagrams of integration. The values

of CH1 are tested in "NON\_REGRESSION " the values  
of CH2 are tested in "ANALYTIQUE "