Case: test_3

Initial stage: make a working directory, for example `/tmp/test_3`
Note: when no precision is given, let the default values.

1 Creation of the case

HOMARD menu, tab « `New case` »

In this new window:
- Directory: select the working directory created above
- Mesh: select the file `test_3.00.med`
- Check the option « `Discrete Boundary` »

The list « `Discrete Boundary` » is empty. Click `New`.

In this new window:
- Name: modify the default value by giving `courbes`
- Mesh: select the file `test_3.fr.med`

Validate the creation of the boundary by the button « `OK` ». Back in the window for the creation of a case, the boundary `courbes` is added to the list of the discrete boundaries.

- Check the option « `Analytic Boundary` »

Here is a table with a single column that contains the list of the groups of the initial mesh: `END_1`, `END_1_A`, `END_1_B`, ... Click `New`.

In this new window:
- Name: give `cyl_ext`
- X centre: modify the default value by giving `50.`
- Y centre: modify the default value by giving `25.`
- Z centre: modify the default value by giving `-25.`
- X axis: modify the default value by giving `1.0`
- Y axis: modify the default value by giving `0.0`
- Z mini: modify the default value by giving `0.0`
- Radius: modify the default value by giving `100.`

Validate the creation of the analytical boundary by the button « `OK` ». The column `cyl_ext` is added to the table; check the cell of the group `EXT`.

Add a new boundary, clicking `New`.
In this new window:
- Name: give `cyl_int`
- X centre: `50.`
- Y centre: `25.`
- Z centre: `-25.`
- X axis: `1.0`
- Y axis: `0.0`
- Z mini: `0.0`
- Radius: `50.`

Validate the creation of the analytical boundary by the button « `OK` ». The column `cyl_int` is added to the table; check the cell of the group `INT`.

Add a new boundary, clicking `New`.
In this new window:
- Check the icon of the sphere
- Name: give `sphere_1`
- X centre: `50.`
- Y centre: `25.`

- Z centre: `-25`.
- Radius: `50`.

Validate the creation of the analytical boundary by the button « `OK` ». The column `sphere_1` is added to the table; check the cell of the group `END_1`.

Add a new boundary, clicking `New`.
In this new window:
- Check the icon of the sphere
- Name: give `sphere_2`
- X centre: `450`.
- Y centre: `25`.
- Z centre: `-25`.
- Radius: `50`.

Validate the creation of the analytical boundary by the button « `OK` ». The column `sphere_2` is added to the table; check the cell of the group `END_2`.

Validate the creation of the case by the button « `OK` ».

The case `Case_1` and the initial iteration `MOYEU` are included in the object browser. In the SMESH module, the meshes `MOYEU` and `courbes` are included with an icon « Imported mesh ». A new tab Boundaries is added to the object browser with all the created boundaries.

2 The first iteration

Creation of a new iteration
Select with the mouse (left) the initial iteration `MOYEU`, then (right) select the tab « `Next iteration` »

In this new window:
- `Mesh` n+1: modify the default value by giving `MOYEU_1`
- Click « `Hypothesis / New` »

Creation of the first hypothesis
In this new window:
- Give the name `Hypo`

Validate the creation of the hypothesis by the button « `OK` ». The window of the creation of a new iteration is back. The hypothesis `Hypo` is included in the list of hypotheses

Validation of the iteration
Validate the creation of the iteration by the button « `OK` ». Under the case `Case_1`, the iteration `Iter_1` is added to the object browser with an icon meaning that the iteration is not computed. The hypothesis `Hypo` is added under the tab Hypotheses in the object browser.

Compute the iteration
With the mouse, select the iteration `Iter_1`, then select the tab « `Compute and publish` ».
The icon of the iteration `Iter_1` means that the iteration is computed. Under the iteration, the object browser grew rich of three files: both first ones are files text, being able to be displayed by the choice « `Show file` »; the third is the file med, containing the produced mesh, for information.
In the module SMESH, the mesh `MOYEU_1` appears with the icon of a produced mesh.

3 The second iteration

Select with the mouse the iteration `Iter_1`, then select the tab « `Next iteration` »

In this new window:
- `Mesh n+1`: modify the default value by giving `MOYEU_2`

Validate the creation of the iteration by the button « `OK` ». Under the case `Case_1`, the iteration `Iter_2` is added to the object browser.

With the mouse, select the iteration `Iter_2`, then select the tab « `Compute and publish` ». The same comments as for `Iter1`.

4 Controls

Set apart date, the file that is produced in the working directory `I02/apad.02.bilan` must be identical to the file `test_3.apad.02.bilan` which is in the reference directory of the cases-tests.
If a dump python is made, the produced file must be similar to the file `test_3.py` which is in the reference directory of the cases-tests.

State of the window Salome at the end: