

Namelist "Level_Set_Method"



This data setup is devoted to the level set method used for the simulation of immiscible two-fluid flows.
It is not available for the release SUNFLUIDH_EDU.

Full data set of the namelist

```
&Level_Set_Method Level_Set_Enabled= .true. ,  
Automatic_Interface_Thickness_Scale= .false.,  
Interface_Thickness_Scale= 1.175D-02 /
```



- This method is only used in the context of incompressible two-fluid flows at present.
- The data "Incomp_MultiFluids" must be set to ".true." in the namelist "Fluid_Properties" for using the level set method.
- **Not available for the release SUNFLUIDH_EDU** .

Definition of the data set

Level_Set_Method Level_Set_Enabled

- Type: boolean value
- The level set method is enabled (.true.) or not (.false.)
- Default value = .false.

Automatic_Interface_Thickness_Scale

- Type: boolean value
- The interface thickness is automatically estimated from the cell size (.true.).
- Default value = .false.

Interface_Thickness_Scale

- type = real value
- Value of the half-thickness of the numerical interface considered between the fluids. It is only imposed when the data Automatic_Interface_Thickness_Scale= .false.
- Default value = .false.

From:

<https://sunfluidh.lisn.upsaclay.fr/> - Documentation du code de simulation numérique
SUNFLUIDH

Permanent link:

https://sunfluidh.lisn.upsaclay.fr/doku.php?id=sunfluidh:level_set_method_namelist

Last update: **2017/02/07 17:56**

