# **Code structure**

## **SRC**

1. **Main.c**

* Initialize variables
* Call solver
* Write output data

1. **Solver.c**

* Resolve at each time step with RK4
* Call spatial solver
* Compute diagnostic

1. **Spatial.c**

* Resolve spatially
* Implementation of all the schemes

1. **BC.c**

* Implementent the Boundary conditions, not sure if needed

1. **Thomas\_algoritm.c**

* The Thomas algoritm provided

1. **Utils.c**

* Toutes les autres fonctions qui pourrait être utile

## **Header**

Tous les headers

## **Postpro**

1. **Analytical\_questions**

* Use for the preliminary analysis

1. **analysis**

* Use for the analysis of output data

**Data**

1. **Results.txt**

* Where we write the output data

**Plot**

Store all the plots

**Makefile**