

# Heckle

*Heckle* is a Hybrid plasma simulation code where ions are treated as macroparticles with the [Particle-In-Cell](#) method, and electron fluid momentum equation is used to calculate the magnetic induction equation. It has been developed at [LPP](#), with written in C and parallelized with the [MPI](#) library.

## Documentation for Users

You can read [the user guide](#).

Other resources :

- [changelog](#)
- [Developers](#)
- [HowTos](#)
- [Machines Heckle runs](#)

Other resources:

- [External libraries](#)

## Publications

- [Magnetic reconnection](#)
- [Kelvin-Helmholtz](#)
- [Turbulence](#)

## Gallery

- [Magnetic reconnection](#)
- [Kinetic Equilibria](#)