Examples of cases

Isothermal incompressible flows

- 2D Eddy convection in a uniform velocity field
- 2D laminar channel flow
- 2D laminar channel flow with a constriction

Incompressible flows with heat transfer (conduction & advection)

- 2D laminar channel flow containing a heated square bar
- 2D channel flow with a thermally conductive square bar heated from the top wall
- 2D heat-driven cavity flow
- 2D Rayleigh-Bénard flow

<nodisp>

Incompressible flows with heat transfer (conduction & advection & radiative transfer)

- 3D heat-driven cavity flow coupled with Real Gas Radiation

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Low Mach number flows

- Successive compression cycles of a 2D quasi-adiabatic cavity

Thermo-acoustics

- 2D model for the Atchley's experiment

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

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