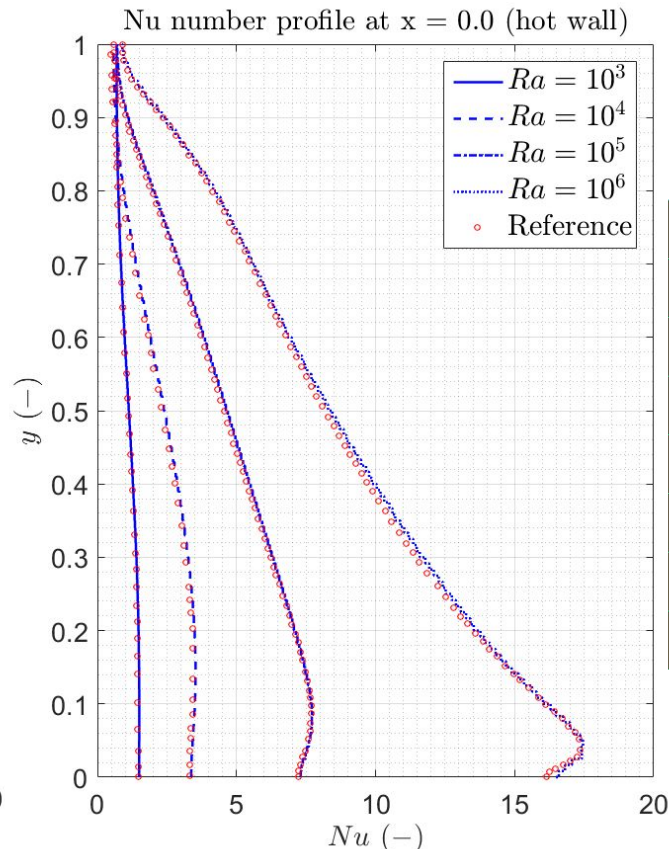
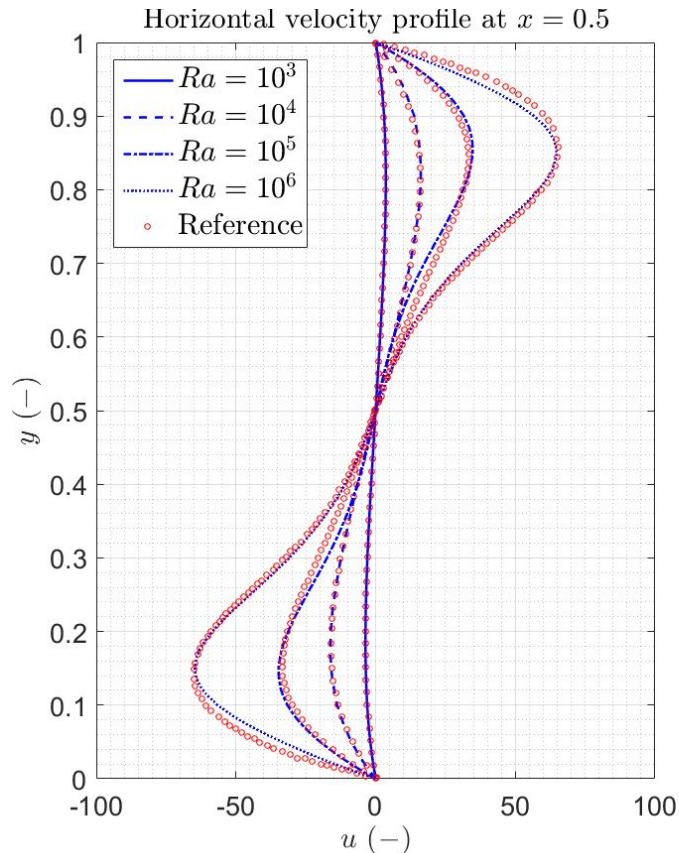
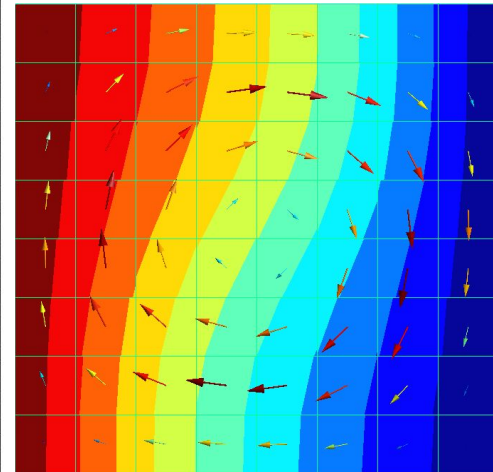


Task 2.3: Numerical Simulations on HX's (TU Delft)

- Done since last meeting:
 - Solve for enthalpy



Buoyancy-driven lid
(T - and U -fields)



Task 2.3: Numerical Simulations on HX's (TU Delft)

- Done since last meeting:
 - Solve for enthalpy
 - Support arbitrary material properties
 - (no libraries linked yet though)
 - Support general stress tensor ($\nabla \cdot \mathbf{u} \neq 0$)
 - Newly developed theory
 - Solve for conserved variables
(e.g. mass flux, instead of velocity)
 - Newly developed theory for enthalpy
- We plan to publish these results.

Task 2.3: Numerical Simulations on HX's (TU Delft)

- D2.5: HT correlations for ATHLET: April 2018
- Next on our agenda:
 - A better time-stepping scheme
 - New theory for pressure correction scheme
 - Conjugate heat transfer
 - Couple with REFPROP (or other mat. prop. library)
 - An LES model
 - Still very unclear what's best