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

Done since last meeting:
 – Solve for enthalpy



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- 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.



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- 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

