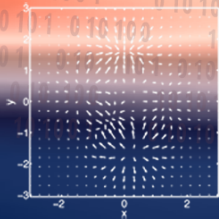


$$(b_h(t))_i = \int_{T_i} q \phi_i \, ds, \quad 1 \leq i \leq M$$



$$f'(u_1) > \frac{f(u_1) - f(u_2)}{u_1 - u_2} > f'(u_2)$$



$$\left. \begin{array}{l} B(u, u) \geq \alpha \|u\|^2 \\ |B(u, v)| \leq \gamma \|u\| \|v\| \end{array} \right\} \Rightarrow \exists^1 u : \begin{array}{l} B(u, v) = \rho(v) \quad \forall v, \\ \|u\| \leq \frac{1}{\alpha} \|\rho\| \end{array}$$

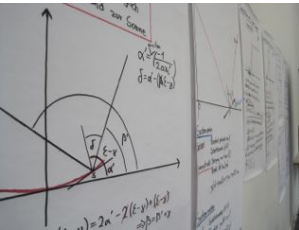
## MathSEE Modeling Week

Mathematical Modeling Week

Prof. Dr. Martin Frank, Kirsten Wohak

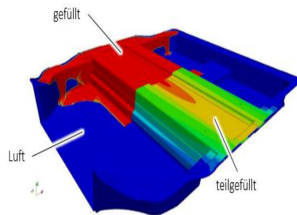
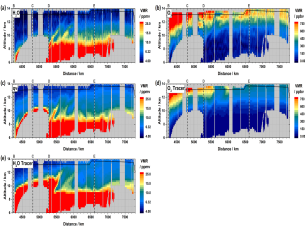
# MathSEE Modeling Week 2020

- Mathematical Modeling Week (16.08. - 21.08.2020)
  - Online or Youth Hostel Burg Rabeneck Pforzheim
  - accreditation in mathematical methodical subjects (mathematics, computer science) and SEE subjects (natural sciences, engineering, economics) as a seminar
- Research questions from the new MathSEE KIT Center
  - working in a group on current, real problems
  - short report/presentation online or in Campus South
  - opportunities for thesis/jobs



# Exemplary topics of earlier Modeling Weeks in Karlsruhe

- Acid mist during absorption
- Identification of air exchange and their fate
- GPS tracking for long surfaces



# Registration / Participation

- registration by mail to wohak@kit.edu
- until **18. May 2020**
- expenses: free of charge (a contribution towards expenses of 50.00 Euro may be added if the week takes place in Pforzheim)
- contact person: wohak@kit.edu

Information and contact

[www.mathsee.kit.edu/english/modelingweek](http://www.mathsee.kit.edu/english/modelingweek)

