

MATLAB

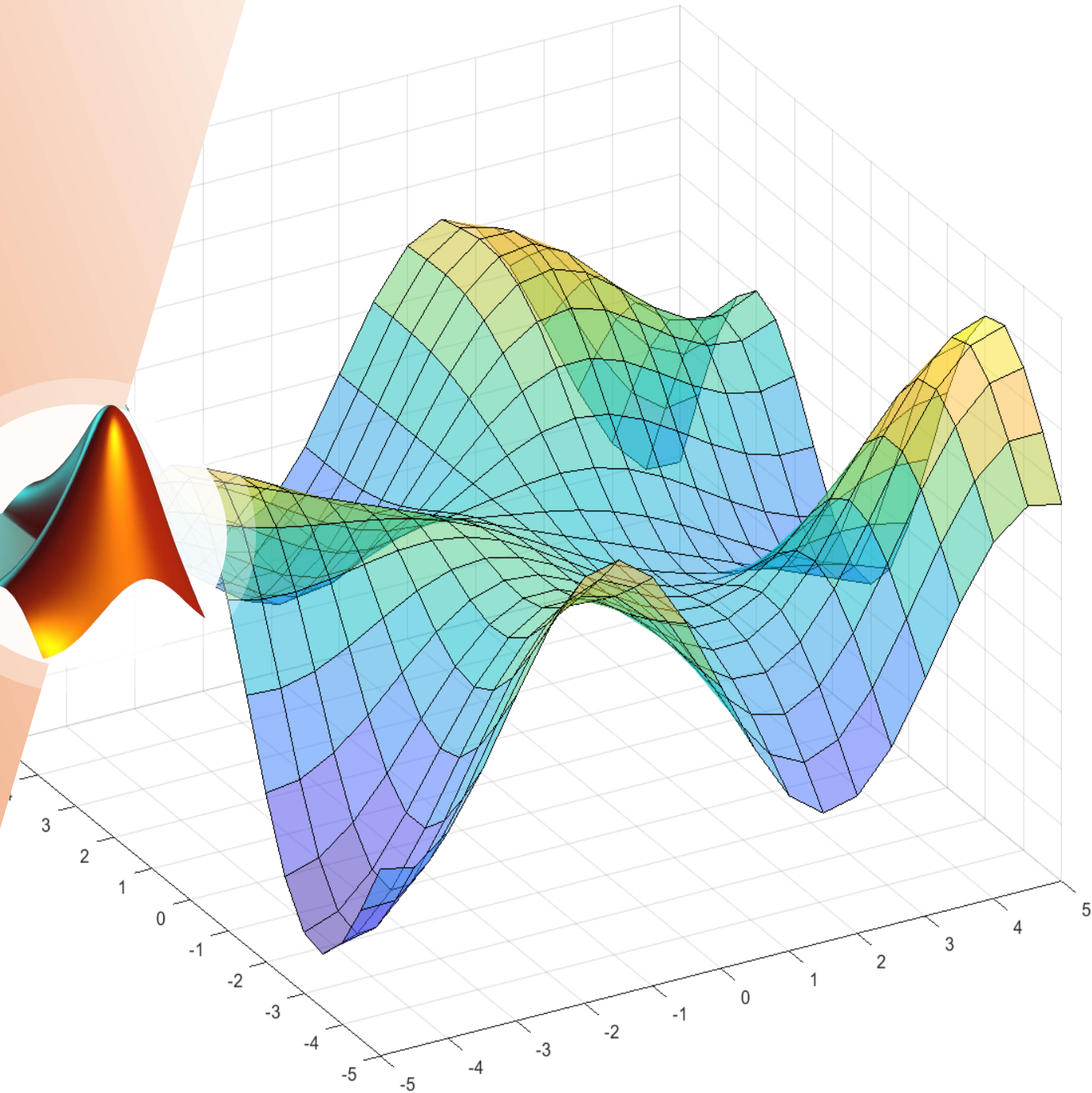
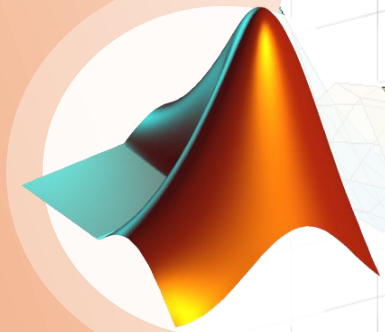
Quickstart

Samstag 08.05.2021

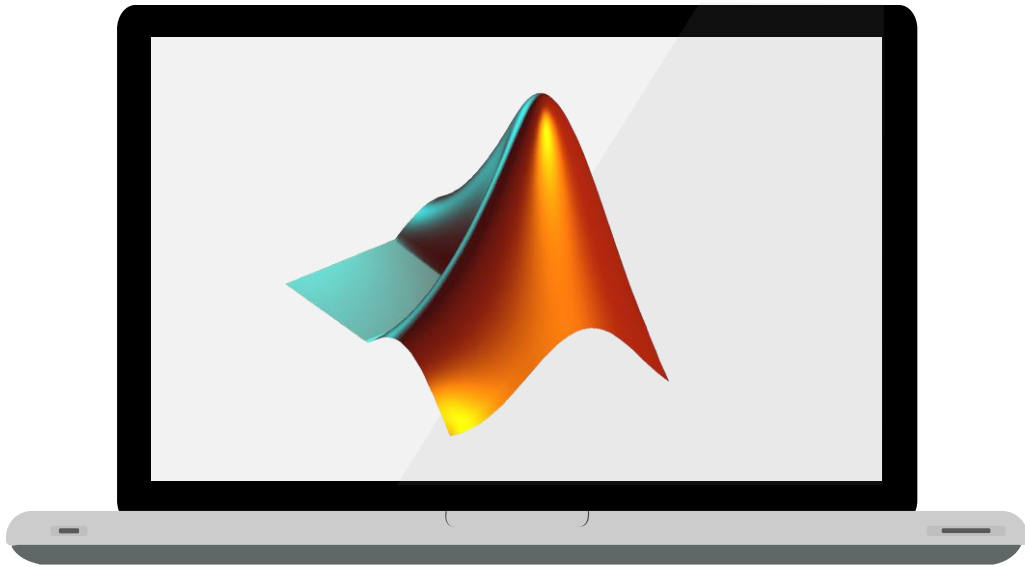
Jannik Wiessler

https://github.com/jannikwiessler/ELEVEL_MatlabSeminar

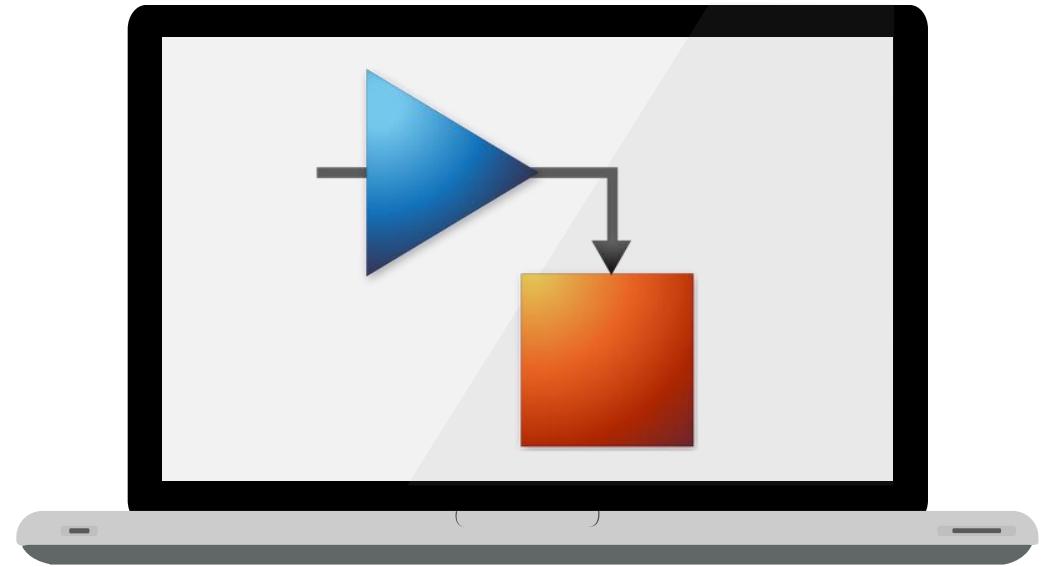
ELEVEL



Mathworks Software

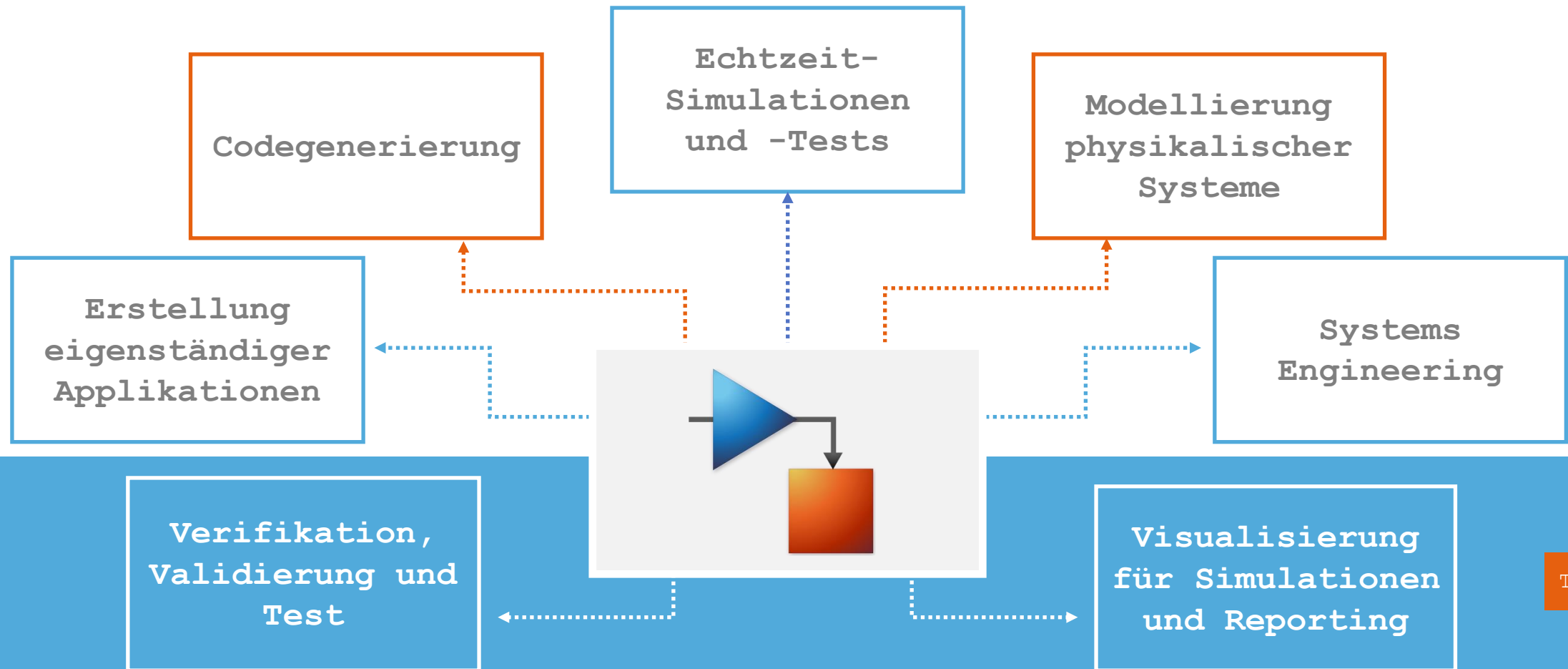


MATLAB Produktfamilie

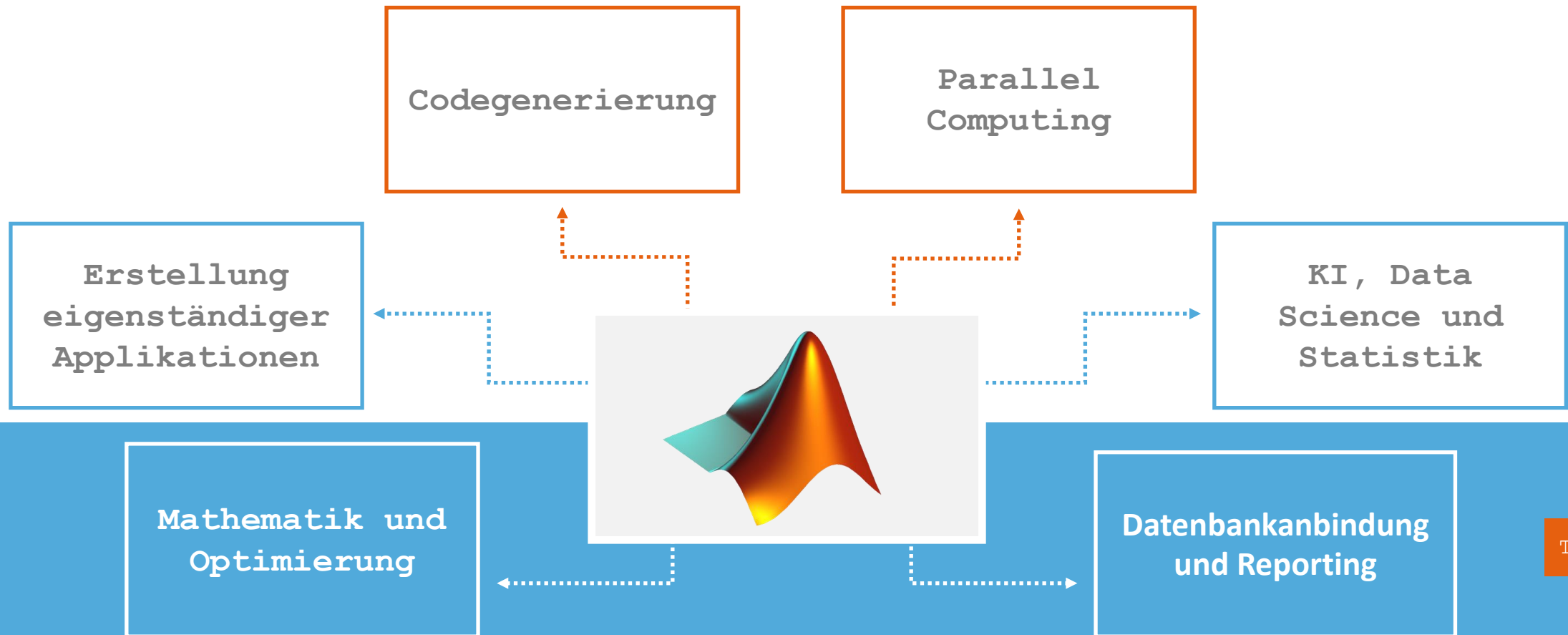


SIMULINK Produktfamilie

SIMULINK



MATLAB





Agenda Infographic

01

Grundlagen

- ✓ Skripte, Debugger
- ✓ Datentypen
- ✓ Funktionen
- ✓ 2D-Plots

^ SD-BJof2

02

Theorie

- ✓ Feder Dämpfer System
- ✓ Kräftebilanz -> DGL

^ KRAFTGEGLEICHUNG -> DGL

03

Modellierung & Simulation

- ✓ Implementierung RHS
- ✓ Run Script
- ✓ Visualisierung
- ✓ Solver Vergleich

^ SOLVER VERGLEICH

04

Ausblick

- ✓ 2D Wärmeleitung
- ✓ ... in Matlab
- ✓ ... in Simulink
(Sfunction, C-Code)

^ (Sfunction, C-Code)