Benchmark Numerical Simulation
Objectives and Call for Participation

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Comparison of simulation models for an example EMF process

- Accuracy
- Identification of important parameters
- Computational costs
- Share of best practice
- ...

Presentation of results at the next I²FG-Meeting
Electromagnetic compression experiment

- Pulse generator characteristics
- Coil geometry
- Tube geometry (Ø 40 x 2 mm, l = 200 mm)
- Coil and tube material data
- Recorded current
- PDV: velocity vs. time curve
- Measured final tube geometry: axial and circumferential direction
Experiments:

Simulation:

- **LS-DYNA** 3D & 2D axisymmetric:

- **ABAQUS** 3D (incl. Co-simulation):

- **ANSYS** 3D (incl. own routines):

And?
Thank you for your attention.

Interested persons please contact:

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