Beitrag ID: **155** Beitragskennung: **29** Typ: **Poster**

BACI/4C: Next-Generation Multiphysics Simulation for Challenging Real-World Problems

BACI/4C is a massively-parallel multi-physics research code to analyze and solve a plethora of physical real-world problems by means of advanced computational mechanics. BACI/4C provides simulation capabilities for a variety of physical models, including single fields such as solids and structures, fluids, scalar transport, or porous media, and multi-physics coupling and interactions between several physical fields. The capabilities of BACI/4C are sufficient to address problems in aerospace, civil, chemical, or process engineering. Moreover, BACI/4C is also used in medical applications and biophysics. It is soon available as open-source and we expect a fast increasing number of
groups worldwide to participate in its development beyond Hereon.

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Keywords

Multiphysics Simulation

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