

Computational modeling of microstructure evolution in additive manufacturing processes.

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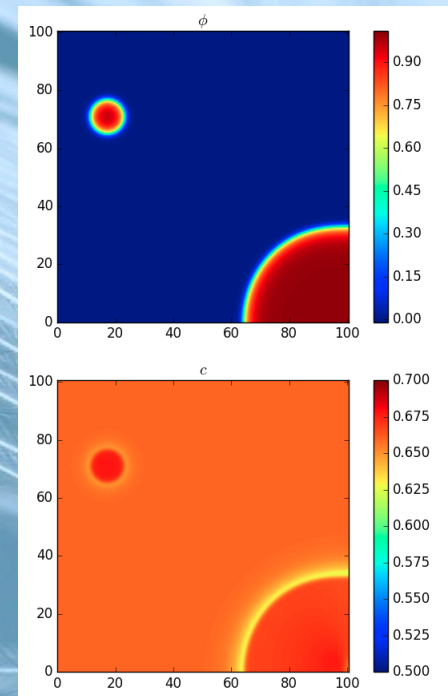
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Advisor: Martin Fisk

Research Scope:

- Development of computational methods to predict the microstructure evolution during additive manufacturing processes.
- Multiscale modeling of the additive manufacturing process, coupling of microstructural model with macroscale thermal FE-model.
- Glass forming metals and Ni-based superalloys.



2D-simulation of nucleation and growth in the binary Cu-Zr alloy.



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