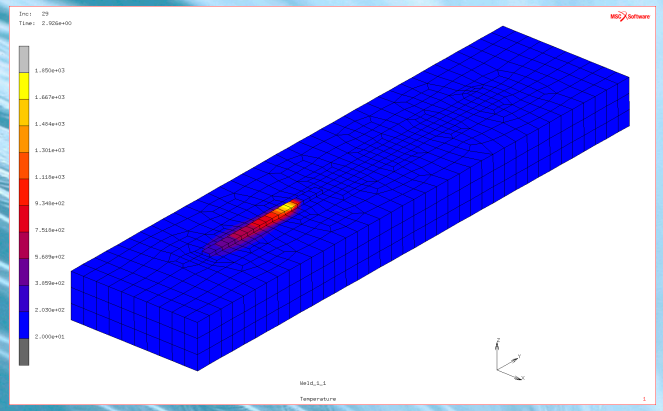
Modelling of Additive Manufacturing and Bulk Metallic Glasses



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Duration: 2016 - 2021
Funding: SSF
Advisor: Prof. Lars-Erik Lindgren

Research Scope:

- Development of a physically based thermal FE-model for solidification of amorphous metals with additive manufacturing (Powder Bed Fusion).
- Determination of thermal properties of a glass forming alloy.
- Validation of thermal FE-model for simulation of PBF.
- Implementation of phase-field method for tracking of nucleation of crystals.

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