



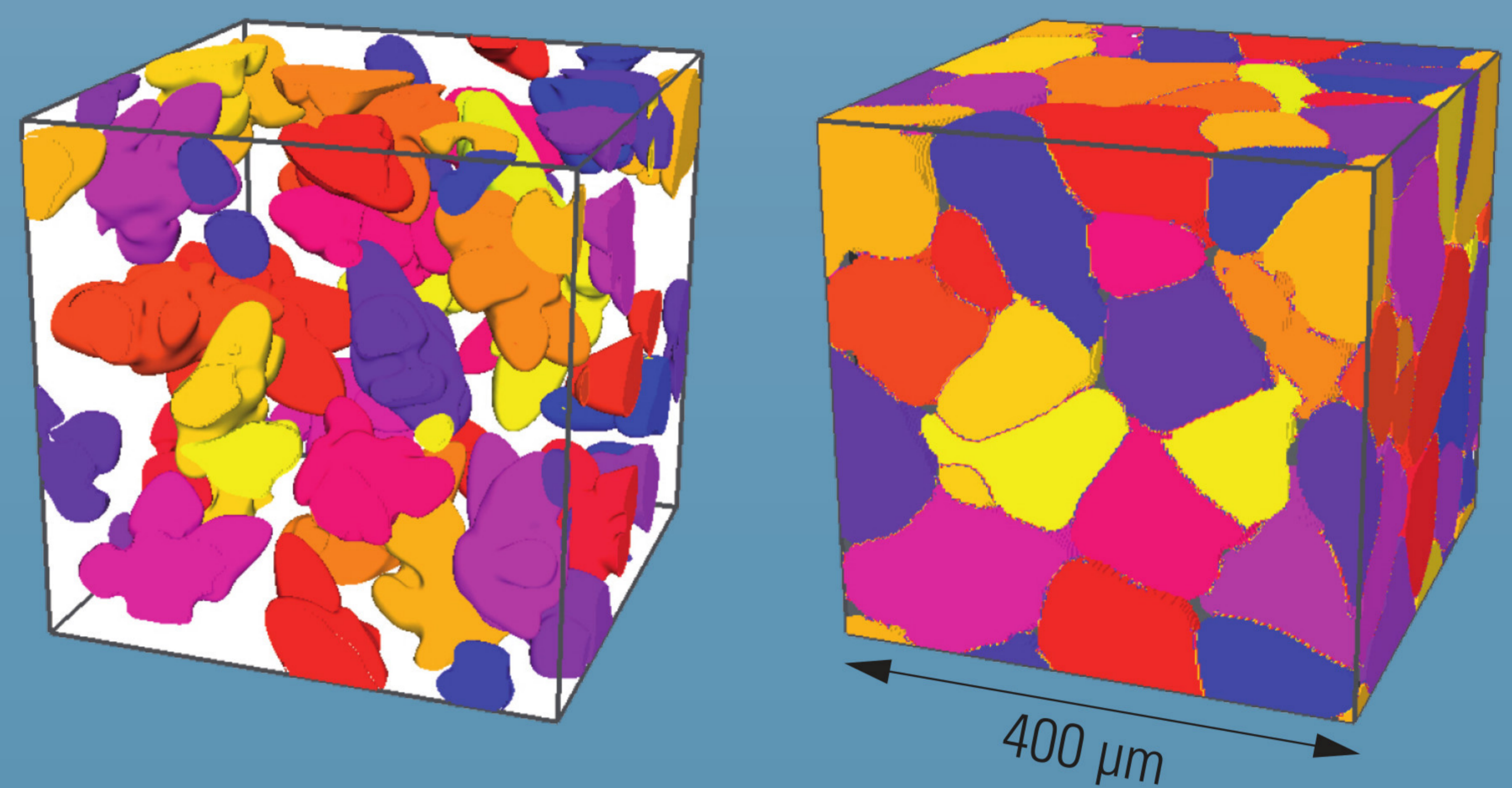
...the microstructure evolution simulation software

simulation of microstructure formation during processing of technical alloy systems in 2D and 3D:

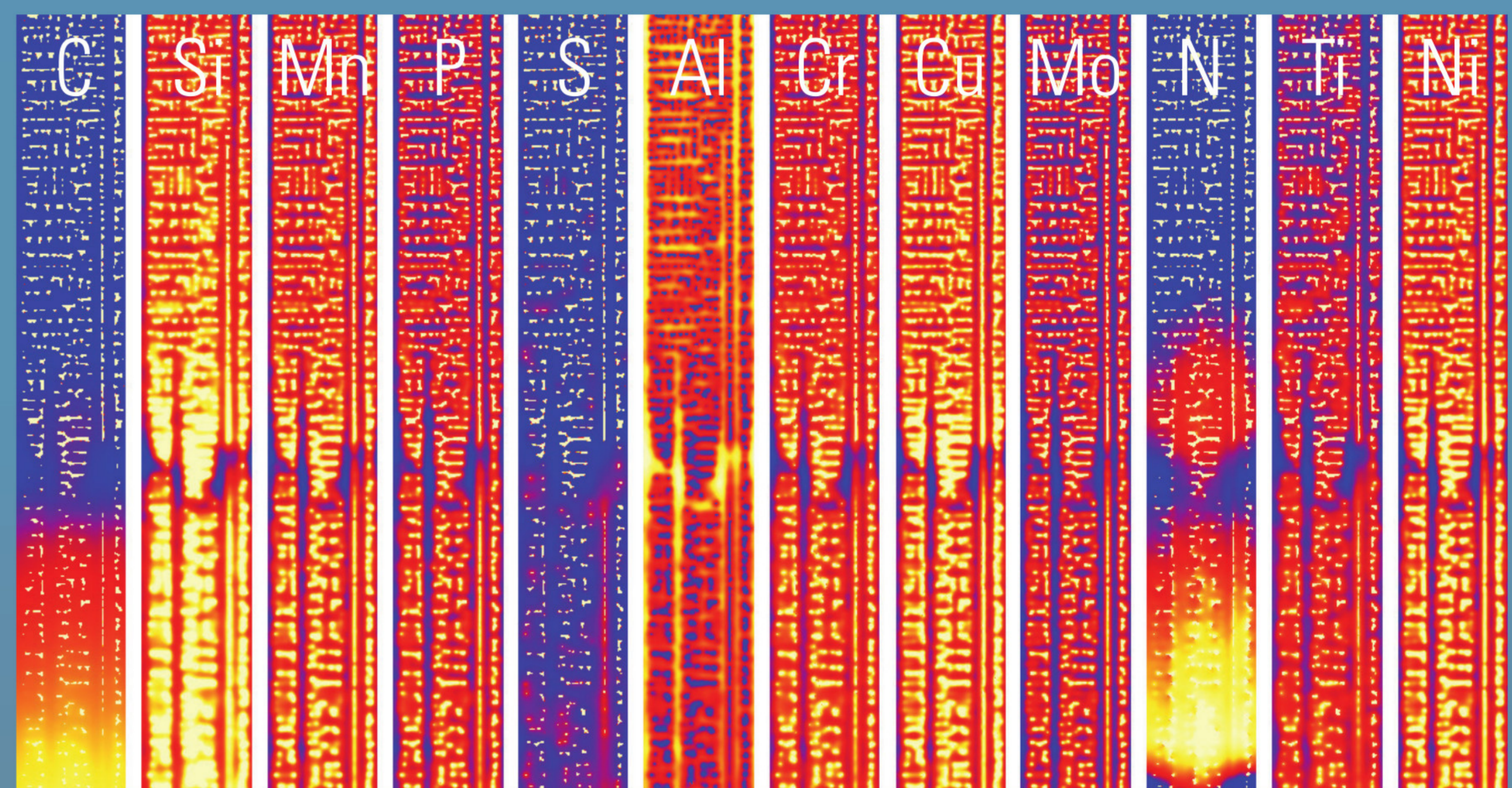
- solidification
- grain growth
- recrystallisation
- soldering/brazing
- solid state transformations
- coupling to thermodynamic and mobility data

applications successfully demonstrated for:

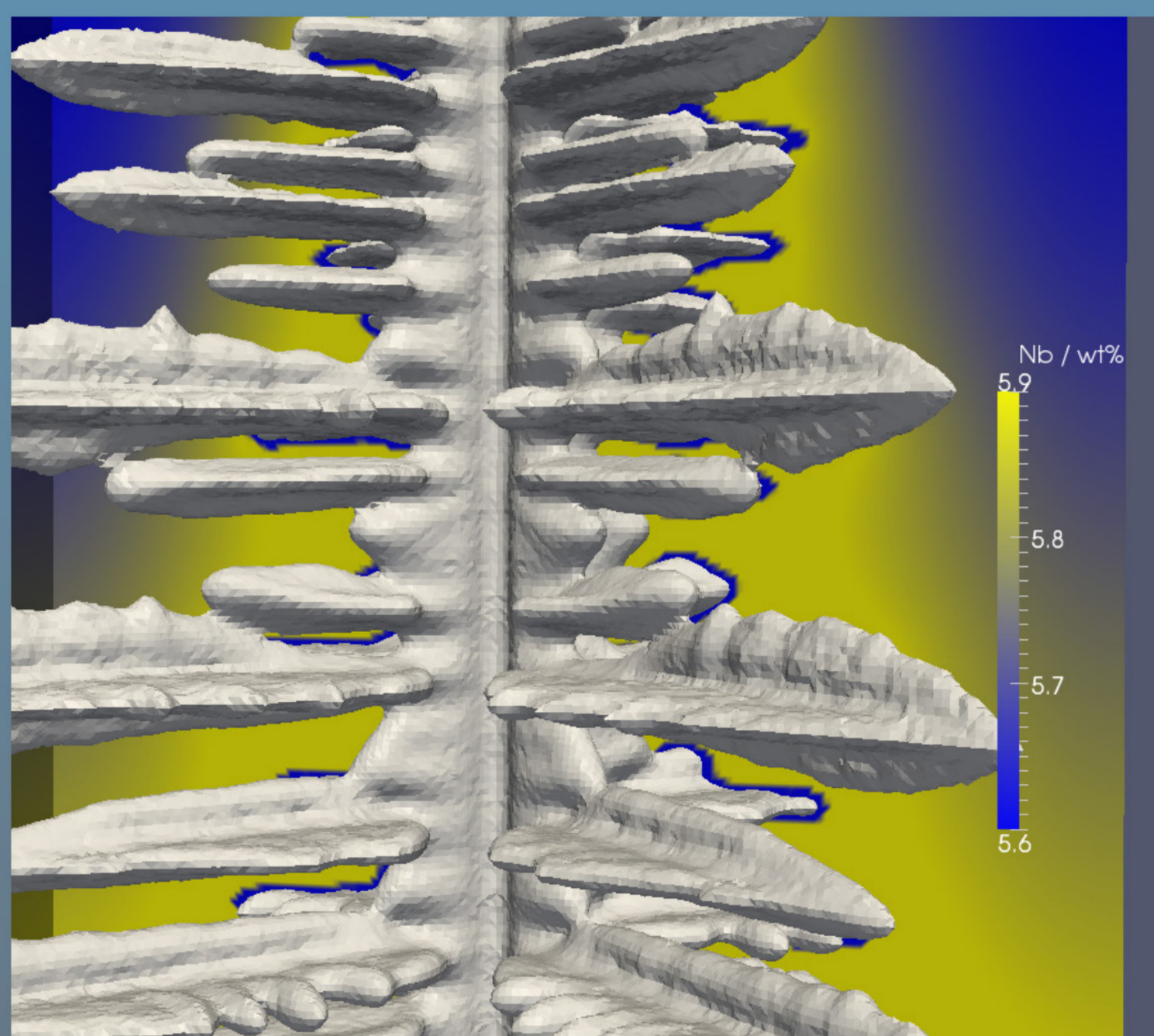
- superalloys
- steels
- cast iron
- Al and Mg alloys
- Ti and TiAl alloys
- lead free solders



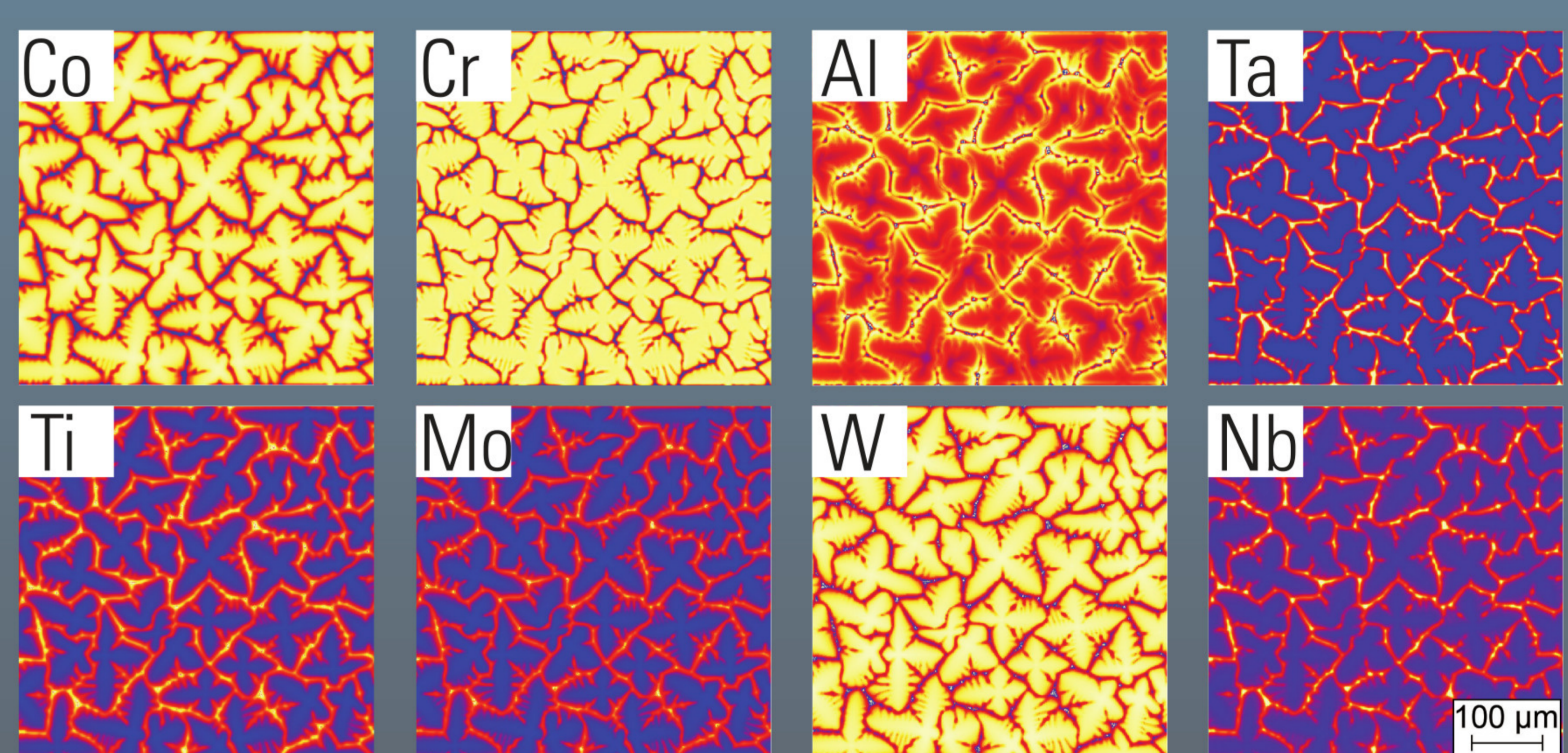
Equiaxed solidification in Mg alloy AZ31



Segregation profiles during directional solidification of a commercial steel grade. Banded structures result from distortions in the diffusion field e.g. by melt flow



Dendrite during solidification of a Ni-based superalloy



Element distributions in superalloy IN718 after solidification



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