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The incidence of slip system interactions on the deformation of FCC single crystals: system selection and segregation for local and non-local constitutive behavior

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Highlights

- System activation under prescribed deformation is influenced by their interactions
- Hierarchy of interactions drives system selection
- Segregation may take place in the form of band type patterns
- These phenomena are justified by linear stability analysis
- Gradient plasticity effects penalize some of the segregation modes

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