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IC W13_fephases Highlight: Solid-Solid Phase Boundary in Fe

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Temperature of the fcc-bcc (face-centered cubic – body-centered cubic) solid-solid phase transition in Fe calculated as $T_{eq} = T_{inst} \Delta E_{fcc-bcc} / \Delta E_{bcc-m}$. (where m. stands for martensitic mixture that bcc-Fe converts into at T_{inst}) maps out a curve which is consistent with the line of the fast recrystallization threshold observed in the recent experiments on Fe at ESRF.