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lecture 3 solidification university of cambridge Sep 09 2022 ence in the rate of liquid solid atom jumps and the solid liquid atom jumps $v \exp \left(-\frac{Q}{kT} \right) \exp \left(-\frac{G}{kT} \right)$ for small g $v \propto \exp \left(-\frac{G}{kT} \right)$ the last two proportionalities assume that the undercooling is small in which case $\exp \left(-\frac{Q}{kT} \right) \approx 1$ x fig 1 barrier to interface motion geometry of solidification

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