

Dendrite spirale biphasée

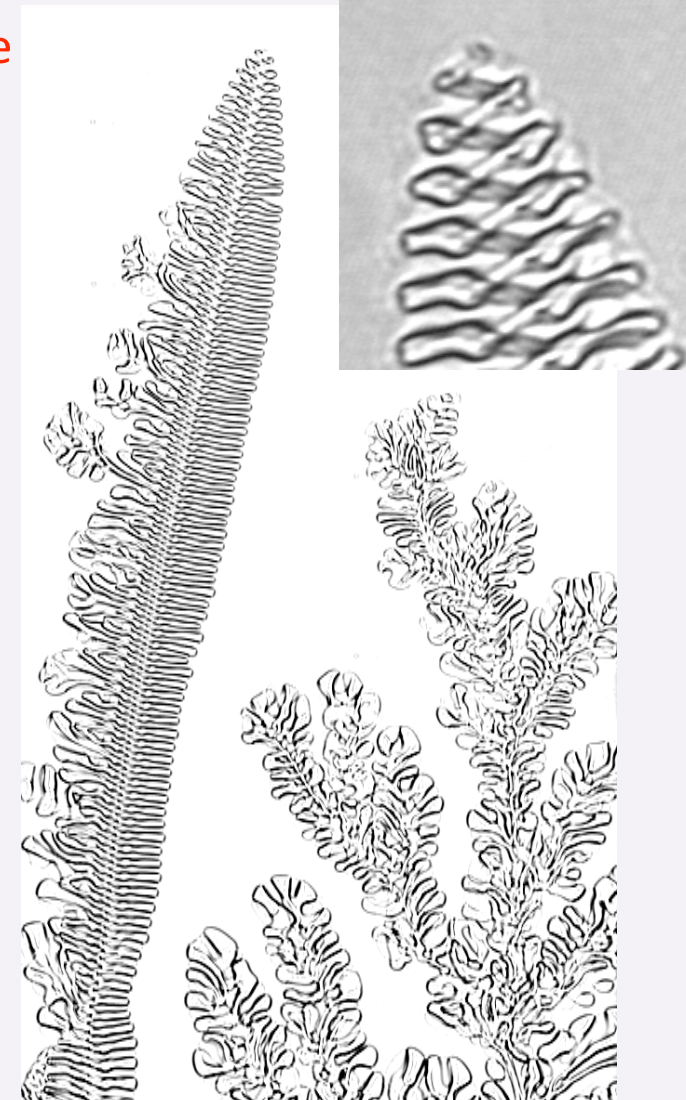
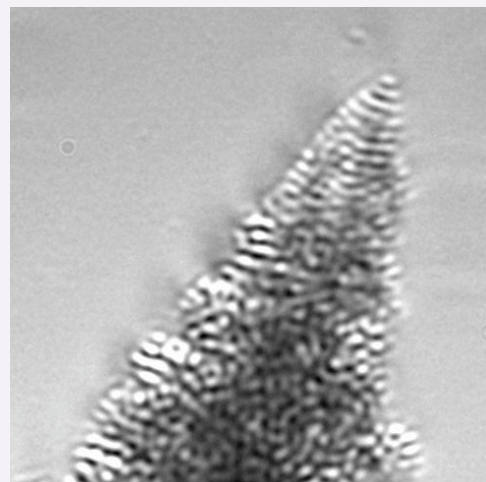
S. Akamatsu, S. Bottin-Rousseau, M. Perrut, G. Faivre

INSP, CNRS-UPMC, Paris

Microstructures de solidification biphases bi-échelle



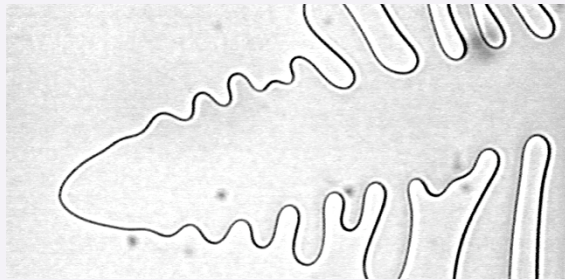
Expérimentation situ



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Dendrite

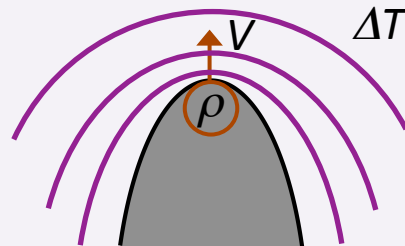


Relation d'Ivantsov

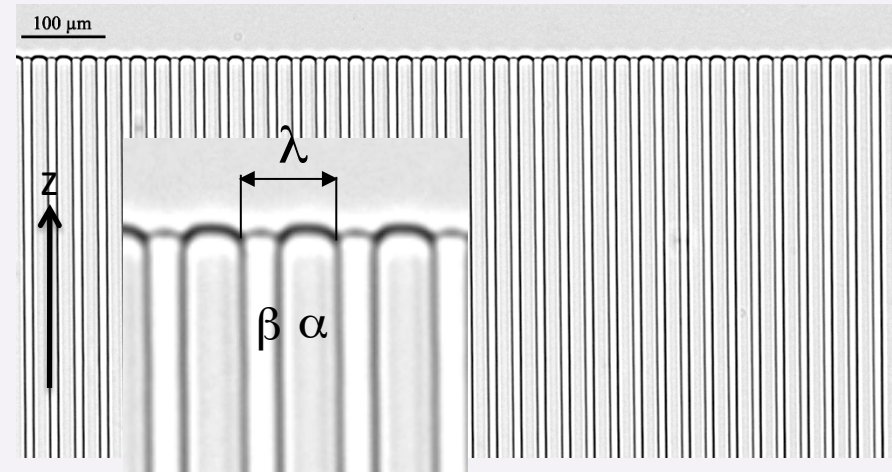
$$\rho V \propto \Delta T^2$$

Microsolvability

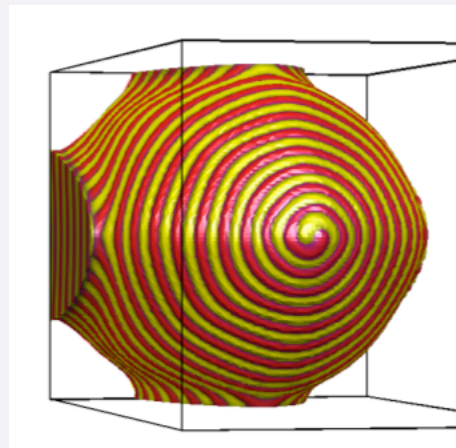
$$\rho^2 V = c t t$$



Eutectiques binaires



Loi de similitude
« en $\lambda^2 V$ »



Granasy, Puztai, PRE 2013

RNL, Paris, Mars 2013