

The development of the Depletion Zone during Ceiling Crystallization: Phase Shifting Interferometry and Simulation Results

Alaa Adawy,*^a Kess Marks,^a Willem J. de Grip,^b Willem van Enckevort*^a and Elias Vlieg^a

a Institute for Molecules and Materials, Radboud University Nijmegen, The Netherlands. Fax: +31(0)24 3653067; Tel: +31(0)24 3653365.

b Department of Biochemistry, Nijmegen Centre for Molecular Life Sciences, Radboud University Nijmegen Medical Centre, The Netherlands.

*To whom correspondence should be addressed: E-mail: a.adawy@science.ru.nl, W.vanEnckevort@science.ru.nl.

Supplementary Information

1. Table of the physical constants used in the numerical simulations

parameter	Value		
	HEWL	KDP	NaClO ₃
c_b	3×10^{-2} g/cm ³	21.25 g%	0.714 g/cm ³
c_e	3×10^{-3} g/cm ³	17.709 g%	0.70 g/cm ³
v	0.01 cm ² /s	1.125×10^{-2} cm ² /s	1.3×10^{-2} cm ² /s
D	1×10^{-6} cm ² /s	6.738×10^{-6} cm ² /s	1.5×10^{-5} cm ² /s
g	981 cm/s ²		
α	0.3032	0.1196	0.55
ρ_o	1.0049 g/cm ³	1.1316 g/cm ³	1.043 g/cm ³

2. Movie showing the interferograms of the growth of tetragonal HEWL crystals during the first day after the onset of the experiment.