Crystal Data

Static Data:		
Name:	Zimmer & Neshyba	
Date:	July 12, 2024	
Cold Stage Size:	51 mm	
Cold Stage Height:	8 mm	
Vacuum Pressure:	70 Pa	
Z/TILT:	6	
Vacuum Current:	17 kV	
Probe Current:	50 micro amperes	
Additional Comments	Aperture = 4	
Kinetic Data:	Action/Observation	Temperature (Actual)
Time:		
8:13 AM	case1.0 is a calibration run	-28.0
8:15	case1.1 is at a higher temperature, slightly ablating	-27.7
8:17	case1.2 has the same set temperature, crystal is ablating slowly	-27.7
8:18	case1.3 is at a higher temperature, crystal is ablating slowly	-27.8
8:21	case1.4 same set temperature, ablating a little faster (even though T=constant)	-27.8
8:23	case1.5 same set temperature, ablating even faster (same T)	-27.8
	General note: Pyramidal facets tend to form when prismatic facets grow to ~30 micrometers (a-direction) or bigger	
8:38	case2.0 could be a calibration run	-29.5
8:39	case2.1 could also be a calibration run	-29.5
8:40	case2.2 also	-29.5
8:41	case2.3 also	-29.5
8:43	case2.4 also	-29.5
8:45	case2.5 lowered set temperature by one degree (to -28)	-28.5
	case2.6	-28.5
	case2.7	-28.5
	case3.0	-29.0
	case3.0	-29.0
	case3.1	-29.0
	case3.2 raised set temperature to -28	-28.5
	case3.3 set temperature still at -28	-28.5

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Probe Current:			
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Kinetic Data:			
Time:			
8:13 AM	Set temperature around -28		
8:15			
8:17			
8:18			
8:21			
8:23	Crystals tend to disappear faster when smaller		
8:38			
8:39	Growing slowly		
8:40	Growing slowly		
8:41	Growing slowly		
8:43	Growing slowly		
8:45	Ablating slowly		
	Ablating slowly		
	Ablating slowly		
	Growing slowly		
	Growing slowly		
	Growing slowly		
	Ablating slowly		
	Ablating slowly		

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8:13 AM	
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