

STATUS OF CRYSTALS PROCUREMENT

Giovanni Organtini

IPADME

CRYSTALS COLLECTED

Type	No	Min	Integral
30	56	21.26	56
32	49	21.29	105
34	74	21.73	179
29	57	22.81	236
27	127	22.95	363
31	69	23.03	432
26	125	23.88	557
28	63	24.51	620
25	125	24.78	745

CRYSTALS ANALYSED

Type	No	Min Size	Integral	Measured
30	56	21.26	56	
32	49	21.29	105	15
34	74	21.73	179	40
29	57	22.81	236	
27	127	22.95	363	59
31	69	23.03	432	
26	125	23.88	557	108
28	63	24.51	620	
25	125	24.78	745	123

STATUS OF PROCUREMENT

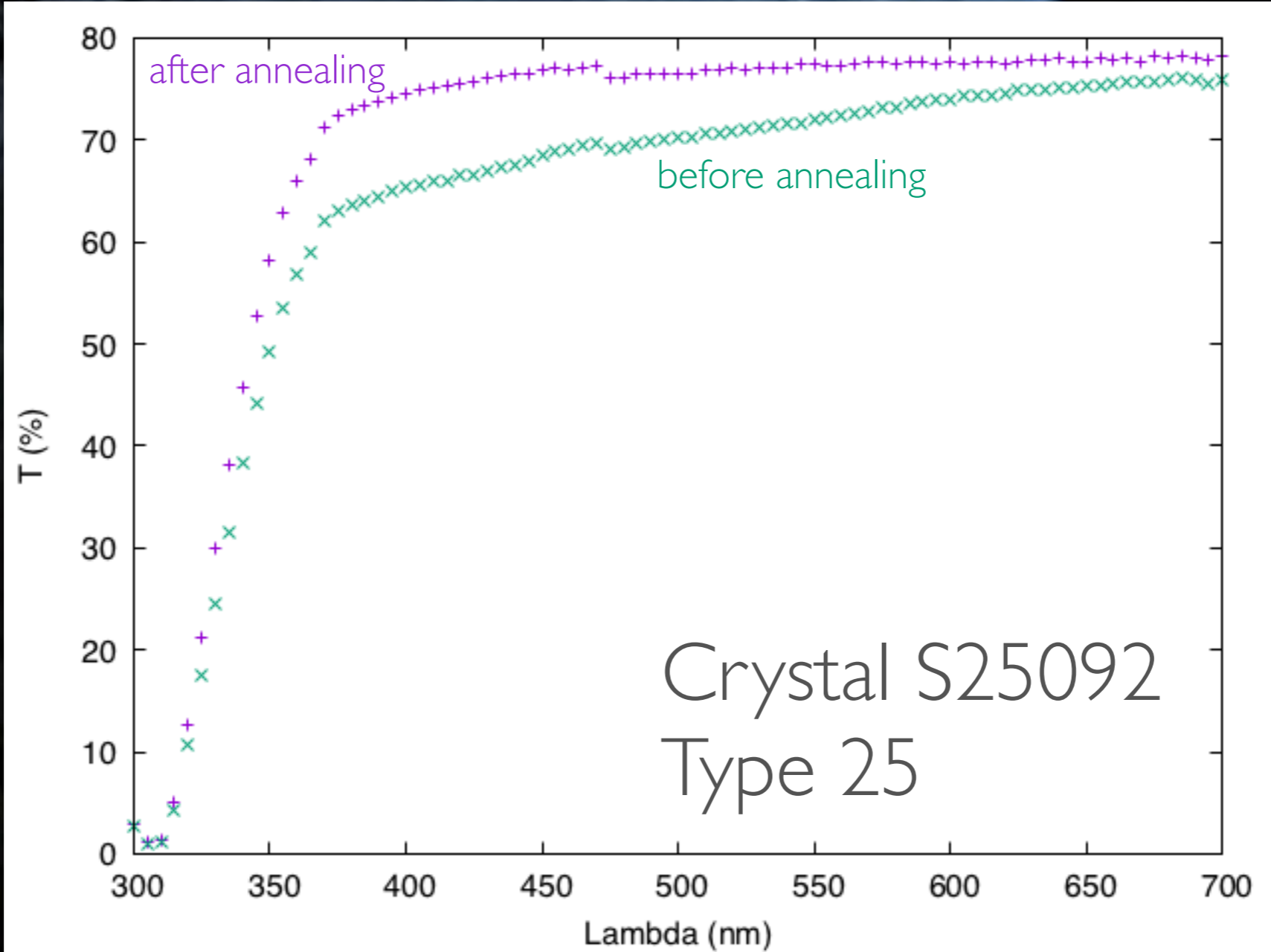
- 745 Crystals available
 - 31 in Roma
 - 714 at CERN
 - $345/714=48\%$ qualified

CRYSTAL TREATMENT

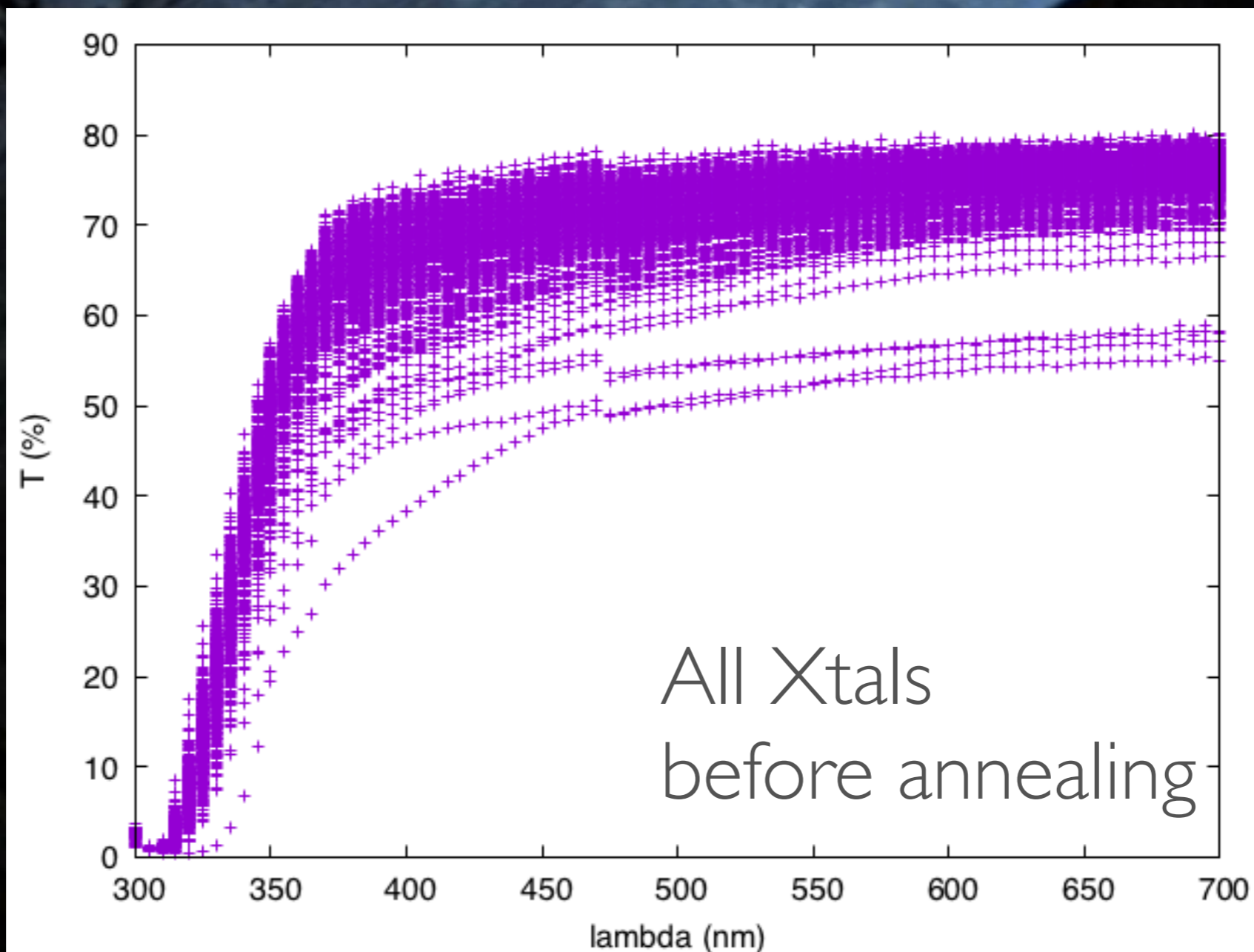
- 48 h in acetone
- photodetector removed mechanically
- painting removed
- transmission measurement
- annealing from 20°C to 200°C in 3h, 200°C for 6h, 200°C to room temperature natural
- transmission measurement

CRYSTAL QUALITY

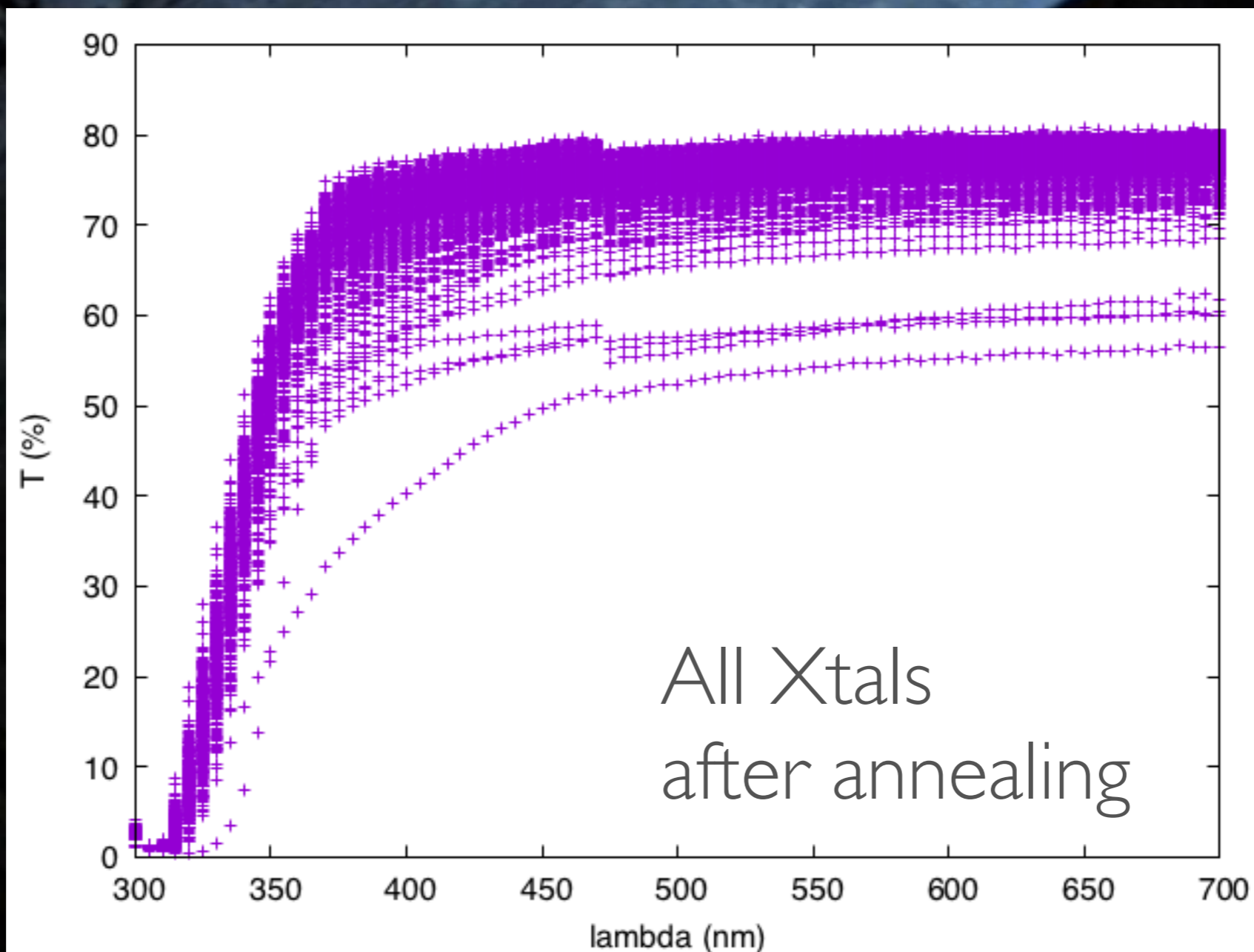
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CRYSTAL QUALITY



CRYSTAL QUALITY

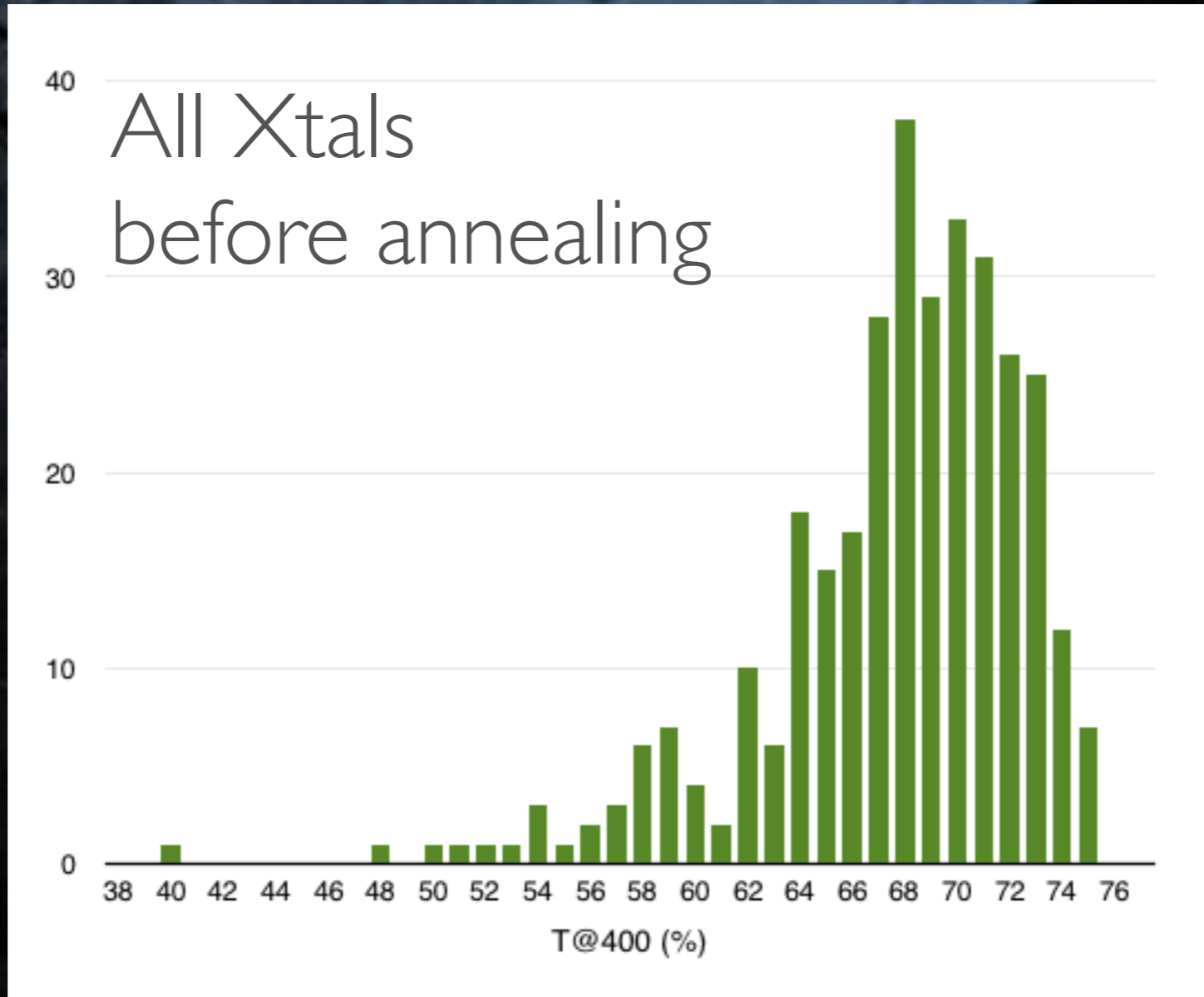


CRYSTAL QUALITY @ 400 NM

	before	after
T_{\min}	38	40
T_{\max}	73	77
T_{average}	66	71
T_{stdev}	5.1	4.5

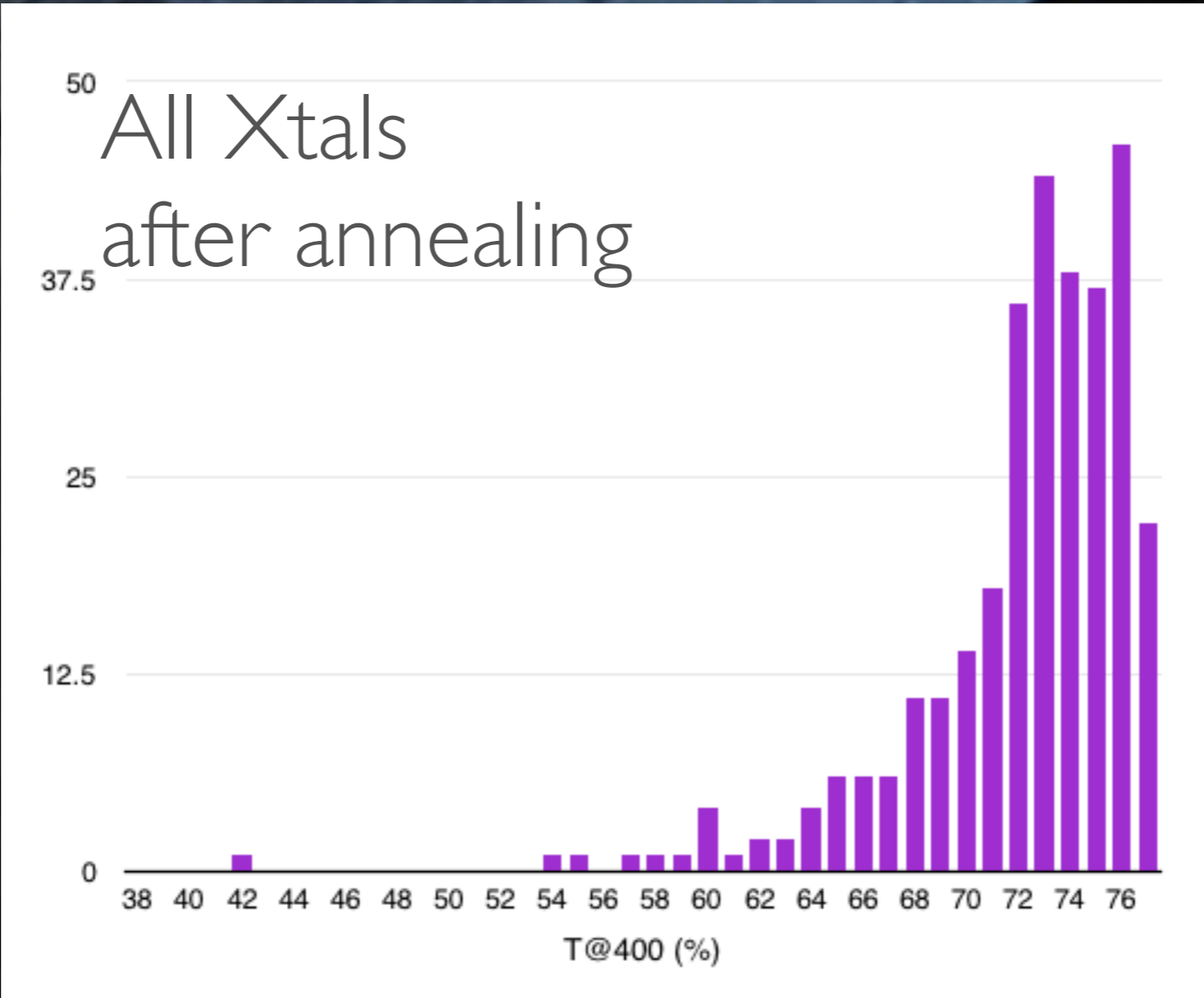
CRYSTAL QUALITY @ 400 NM

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CRYSTAL QUALITY @ 400 NM

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TODO

- complete measurement campaign
- define limits of acceptance
- assess the number of good quality crystals