**Lab log**

**Date:** 7/16/2013

**Info:** Amy spent over 1 hour trying to eliminate static, but the pictures are not really any better.

**Conditions:** BSE, 12 kV, PC 60, 50 Pa, Wd 7.5 -> ~10.6 mm tech.

**Goal:**

1. Get some more roughness images and try to play with rotation and tilting.

**What I did:**

1. Standard start, go to -45 °C, wait for crystals.
2. Zoom-in on roughness and align it with rotation, go to -34 °C
3. T: -34 -> -40 then -30 and -32
4. T: -42 -> -34 and stay there

**Products:**

If you leave the crystals on -40 °C for a long time, they will stack up and get much more deformed. For clean structures, it seems to be better to grow the crystals somewhat and then jump to ~ -32 °C and study roughness there.

Tilting is only available in one direction, so in order to tilt, it is necessary to rotate for 180 ° or so, which is not a good idea because of the cord getting twisted and being able to hit. It would be ideal to find profiles “downhill” because you can tilt those easily, but I had not tested this.

**Info:**

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| --- | --- |
| -30 °C | 916\_3d\_Snapshot1 |
| -32 °C | 916\_3d\_Snapshot2 |
| -34 °C | 916\_3d\_Snapshot3 |
| -36 °C | 916\_3d\_Snapshot4 |
| -38 °C | 916\_3d\_Snapshot5 |
| -40 °C | 916\_3d\_Snapshot6 |
| -42 °C | 916\_3d\_Snapshot7 |

|  |  |
| --- | --- |
| -42,4 °C | 1149\_3d\_Snapshot1 |
| -34 °C – 0 min | 1149\_3d\_Snapshot2 |
| -34 °C | 1149\_3d\_1280\_1 |
| -34 °C – 5 min | 1149\_3d\_Snapshot3 |
| -34 °C – 11 min | 1149\_3d\_Snapshot4 |
| -34 °C – 18 min | 1149\_3d\_Snapshot5 |
| -34 °C | 1149\_3d\_1280\_2 |