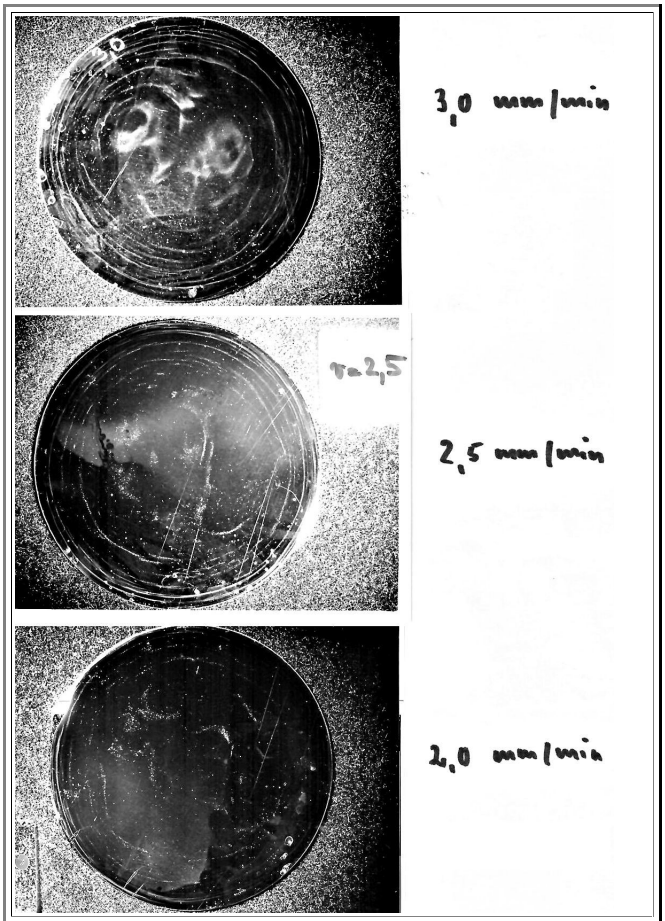
Pictures to: 2.3 Swirl Defects in Si (Investigated in a HVTEM)

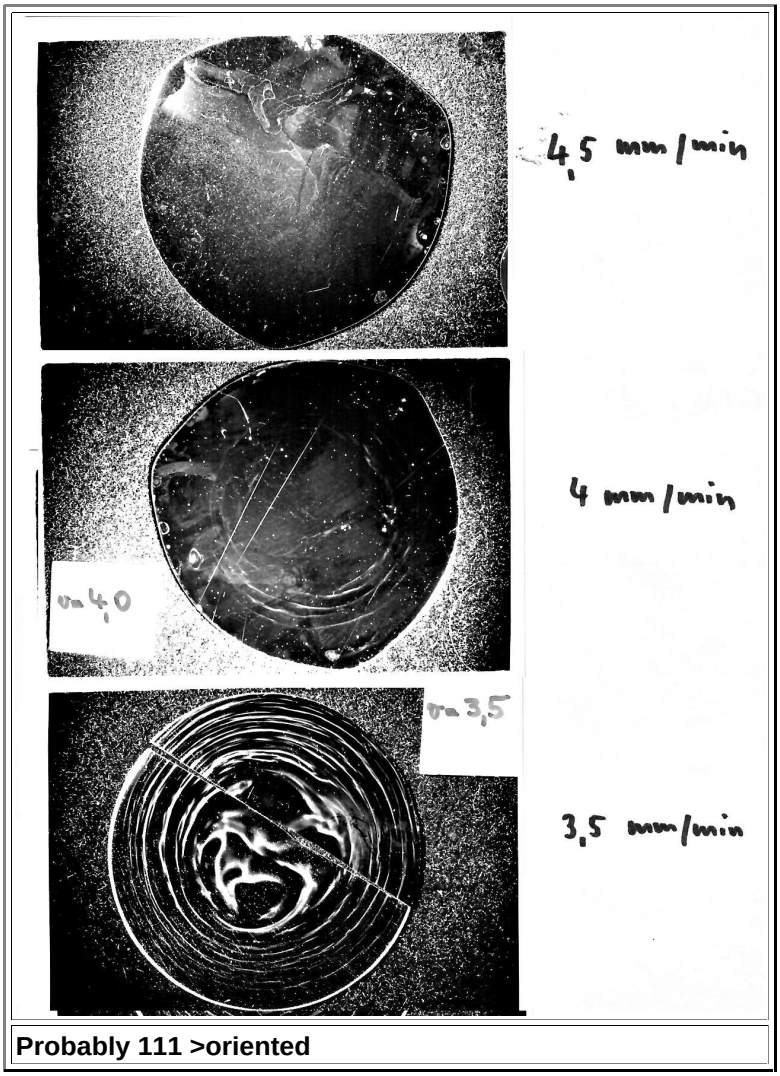
Part 3

- Months after I thought I was done with archiving the swirl work, I found another file full of pictures not yet selected. Here is a small number of these finds.

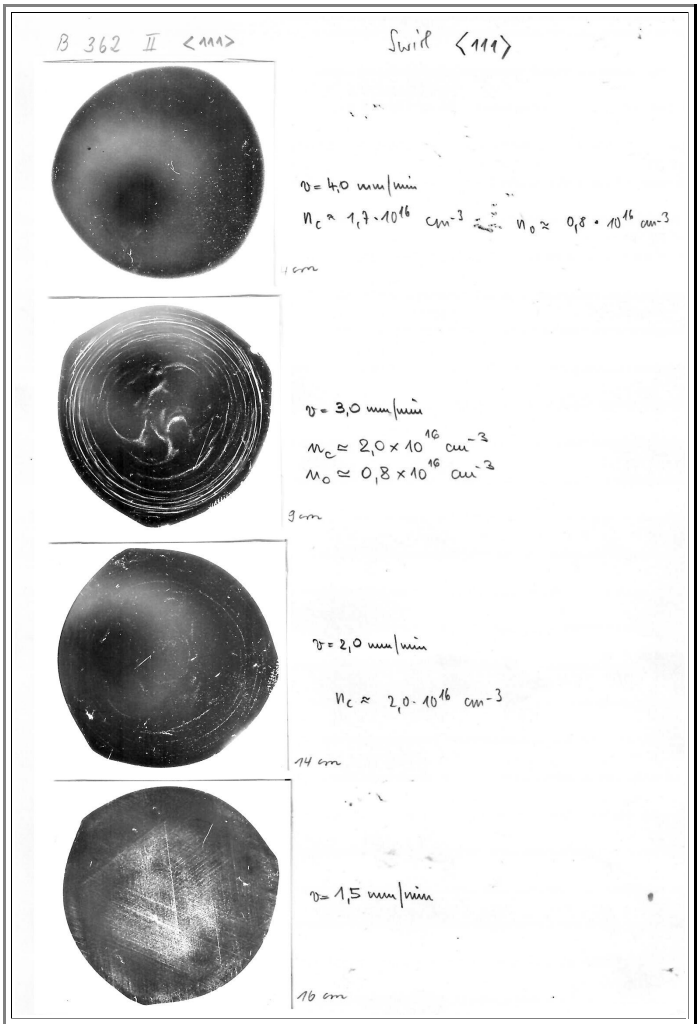
- First, a few optical pictures showing the swirl pattern on our 33 mm ***FZ*** crystals. The pulling speed is also indicated.



Probably <100> oriented

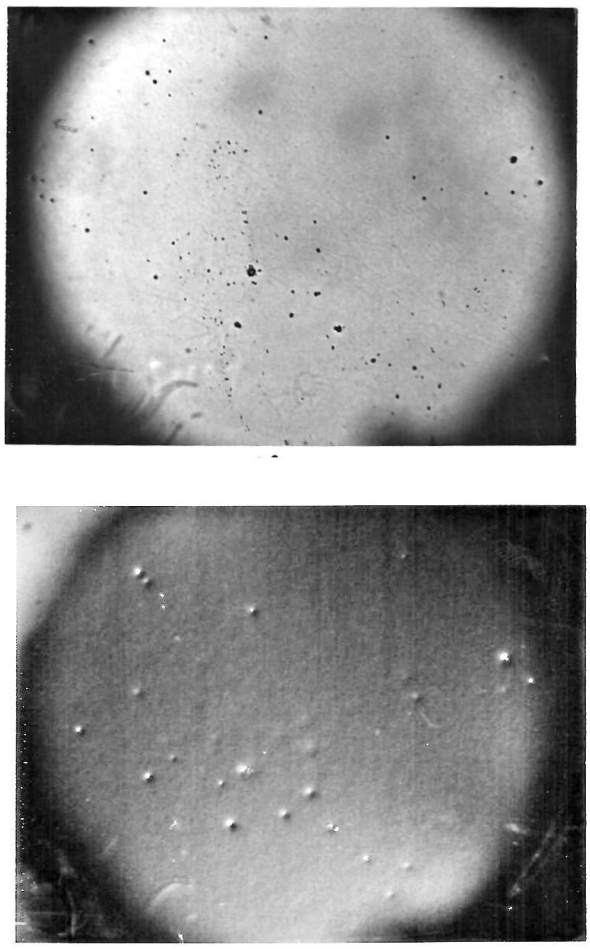


Probably 111 >oriented

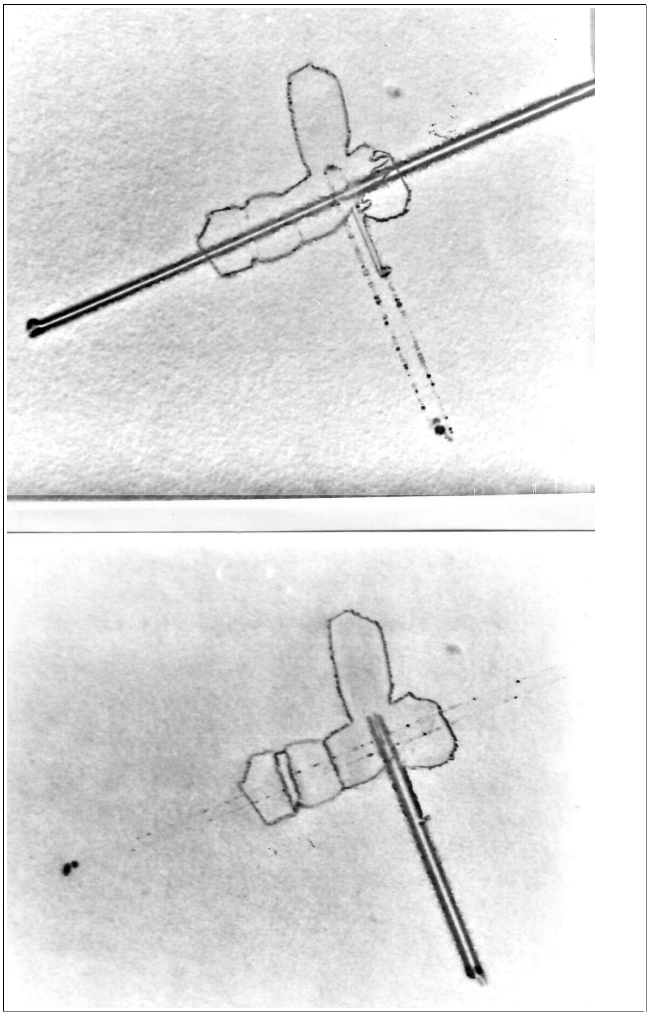


At the lowest growth speed dislocations were generated

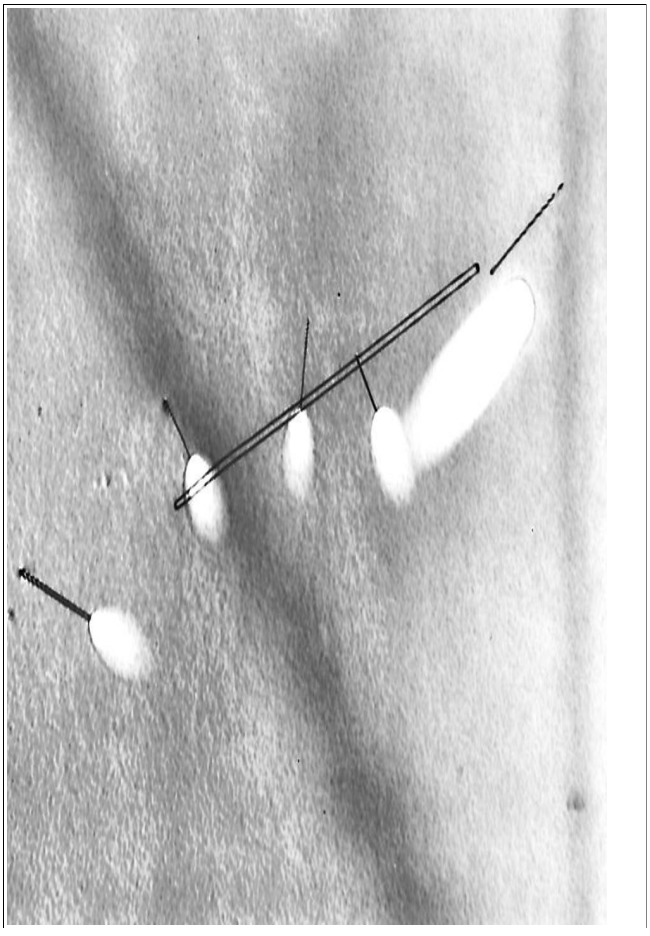
One more example to specimens preparation



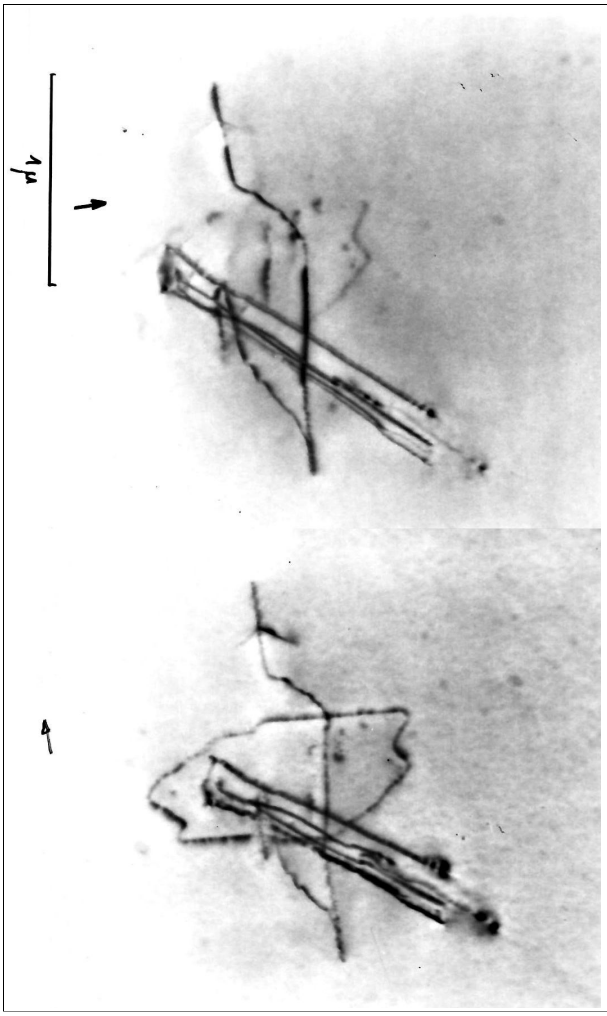
Top: 2.3 mm diamter specimen, though-light view
Bottom: Looking at the surface



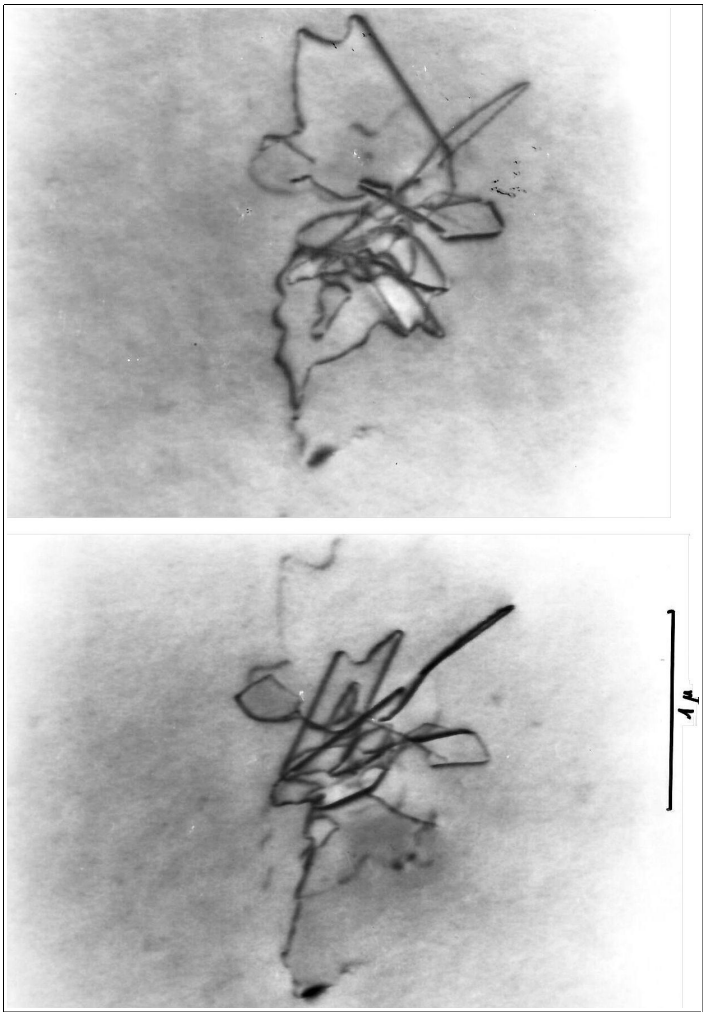
Huge defect shown at two different diffraction conditions.
Here, as in other examples, the very long and straight dislocations dipoles are
decorated by second order agglomerates.



A rather weird assembly
Of course, the major part of this defect might have been etched out by specimen preparation, witness the etch pits.



Complex defect shown at two different diffraction conditions.
A simple unfaulted loop seems to be at the heart of the defect..



Complex defect shown at two different diffraction conditions.

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Here are the links to the rest

Swirl pictures
Part 1
Part 2