

In the second session we used the double crystal setup. In this case two Si (111) crystals were used and the sample placed between them. The crystal upwards the sample, working in Bragg's geometry, monochromated and redirected the radiation in the sample direction. The crystal downwards the sample, called analyser, reflected to the film only those rays deviated from the sample of an angle lower than the Darwin width. In this way the contours of objects were evidenced because in the boundary zones the grazing angle is lower and the deviation greater.

References

- [1] T. J. Davis, D. Gao, T.E. Gureyev, A.W. Stevenson, S.W. Wilkins, Nature 373, 595 (1995)
- [2] S. W. Wilkins, T. E. Gureyev, D.Gao, A. Pogany, A. W. Stevenson, Nature 384, 335 (1996)