



Fig. 2.28. Variation in the vertical size of an x-ray beam with the number of lenses on its path measured at 0.3 m and 24 m downstream of the CXL.

We expect that reducing the lens wall thickness from the present 0.2 mm to 0.1 mm will approximately double the throughput in the present setup. The next generation of the lenses, with a wall thickness of 0.1 mm has recently been obtained, and tests are planned.

2.4 References

- L. Assoufid, M. Bray, D. Shu, J. Qian, SPIE Meeting, Seattle, WA, July 7-11, 2002a
- L. Assoufid, A.T. Macrander, S. Narayanan, R. Khachatryan, and S. Krasnicki, American Physical Society March Meeting, Session S21-Focus session: Synchrotron Radiation Base Instruments

and Measurements. Indianapolis, Indiana, March 21, 2002b

Y.S. Chu, C. Liu, D.C. Mancini, F. De Carlo, A.T. Macrander, B. Lai, and D. Shu, Rev. Sci. Instrum. **73**, 1485 (2002)

B. Deriy, Yu. Eidelman, O. Makarov, and I. Vasserman, "New Magnetic Measurement System at the Advanced Photon Source," Proceedings of the 8th International Conference on Accelerator and Large Experimental Physics Control Systems, held Nov 27-30, 2001, San Jose, CA. Available at:

<http://www.slac.stanford.edu/econf/C011127/TUAP051.pdf>.

R. Divan, D. Mancini, N. Moldovan, L. Assoufid, Y. Chu, Q. Ma, and R.A.

Rosenberg, 2001 International Micro-processes and Nanotechnology Conference, October 29 – 31, 2001, Kunibiki Messe, Matsue-shi, Shimane, Japan

G. E. Ice, J-S. Chung, J.Z. Tischler, A. Lunt, and L. Assoufid , Rev. Sci. Instrum. **71**, 2635 (2000)

C. Liu, A.T. Macrander, J. Als-Nielsen, and K. Zhang, J. Vac. Sci. Technol. A **19**, 1421 (2001))

J. Maj, A.T. Macrander, S. Krasnicki, P.B. Fernandez, and R.A. Erck, Rev. Sci. Instrum. **73**, 1546 (2002)

P.V. Satyam, R.E. Cook, S. Narayanan, L. Assoufid, J. Wang, J. Kamila, D. Goswami, and B.N. Dev, The 11th User Meeting for the Advanced Photon, Argonne National Laboratory, Illinois, October 9-11, 2001