



	Experiment title: Test of non-classical Fresnel transmission lenses for the focusing of x-rays	Experiment number: MI782
Beamline: BM05	Date of experiment: from: 25/07/2006 to: 26/07/2006	Date of report: 01/03/2007
Shifts: 3	Local contact(s): Dr. Anatoly Snigirev	<i>Received at ESRF:</i>
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Report:

The experiment as described in the report for the beamtime in 11/2005 was continued at lenses with smaller prism heights of $h=12.83\text{ }\mu\text{m}$. The coherently illuminated area of $45\text{ }\mu\text{m}$ vertically and $13\text{ }\mu\text{m}$ horizontally for 8 keV photon energy at 53 m from the BM05 source covers then almost 4 rows or just one row, respectively. Also in this case the prism tips did not refract the beam as expected. As the relative portion of the defective prism area is now larger the intensity was spread over even more diffraction orders. The crossed configuration of two lenses for bi-dimensional focusing produced then a regular spot pattern.