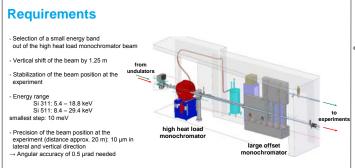
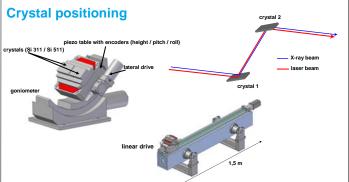
Large Offset Monochromator for the High Resolution Beamline P08.

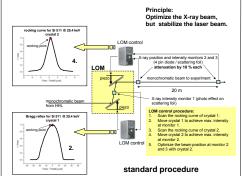
M. Degenhardt, U. Hahn, J. Heuer, J. Horbach, H. B. Peters, H. Schulte-Schrepping and H. C. Wille, DESY FS-BT

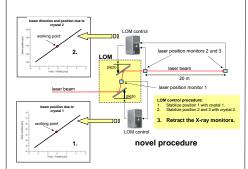


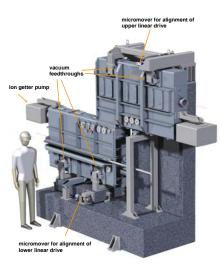




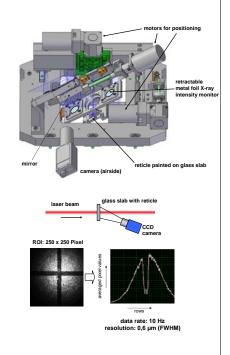
Beam stabilisation concept shown generically for pitch piezo



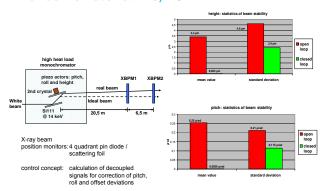


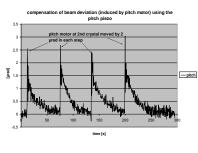


Sensor unit between vacuum vessels



Stabilisation test using the high heat load monochromator at ID6, ESRF





Conclusion and Outlook

- The stabilization control system showed its feasibilty to correct the beam position and direction using 3 piezo actors
- The stabilization can be used for the correction of long term deviations (i.e. thermal drift).
- Vacuum vessels are manufactured and fulfill the vacuum specification.
- All components of the system fulfill the requirements and are ready for assembly.

[1] Design of a Large Offset Monochromator at PETRA III J. Horbach, M. Degenhardt, U. Hahn, H.B. Peters, H. Schulte-Schrepping Nucl. Instrum. Methods A (2009, to be published)



