


Methods, IOCBC, Einsle

<div>X-ray Generator and Diffractometer</div> <div>Protein Crystallography</div>	<div>Model: Rigaku 007HF X-ray generator with Osmic VHF Optics, Oxford Cryostream and Rigaku Saturn 944+ CCD detector.</div> <div>Unit and Room: Biochemistry, 9th floor, R.910</div> <div>Responsible: Dr. Stefan Gerhardt, 203 5970</div> <div>Further information: http://portal.uni-freiburg.de/xray/equipment</div>
<div>Short Description:</div> <div>Micromax 007HF is a microfocus rotating anode X-ray generator producing Cu-Kα radiation (1.5418 Å). The system is equipped with VariMax UHF focusing mirrors, cryosystems for routine data collection at 100K and two detectors, a high-sensitivity CCD detector (Saturn 944+) and an imaging plate systems (mar345dtb).</div>	<div>Picture of the Equipment</div> <div></div>
<div>Available Experiments/Techniques:</div> <div>Single crystal diffraction; data collection from single crystals; collection of anomalous data for phase determination for suitable elements.</div>	
<div>Special Equipment:</div> <div>Single-crystal UV/vis spectrophotometer (4DX) with Andor spectrograph.</div>	
<div>Measurements on the equipment are currently done by:</div>	<div><input type="checkbox"/> Students</div> <div><input type="checkbox"/> Students after Introduction</div> <div><input checked="" type="checkbox"/> Students after extensive training</div> <div><input checked="" type="checkbox"/> Trained scientific service personal</div>
<div>Recent Publications, where this instrument was important (optional): Give citation</div>	
<div>Typical problems that may be solved with this instrument:</div>	<div>- Diffraction measurements of protein crystals (long unit cell axes)</div> <div>- Solution of the phase problem using suitable anomalous scatterers (e.g. Fe, Xe, I).</div>