


Methods, IAAC, Hillebrecht

<p><b>Single-crystal X-ray Diffraction</b></p> <p><i>X-ray Diffraction</i></p>	<p>Model: <i>STOE IPDS2</i>          Unit and Room: <i>Inorg. Chemistry, Chem. II, basement R. -142</i>          Responsible: <i>Dr. M. Ade</i>          Further information: <i><a href="http://portal.uni-freiburg.de/fkchemie/Ausstattung/roentgenbeugung/">http://portal.uni-freiburg.de/fkchemie/Ausstattung/roentgenbeugung/</a></i></p>	
<p>Short Description:</p> <p>X-ray diffractometer for single crystal structure determination; 2-Circle Goniometer, 340 mm diameter imaging plate area detector with <math>2\theta_{max} = 77^\circ</math>; variable detector distance (40-200 mm); Mo-K<math>\alpha</math>-radiation, X-ray wave guide and linear graphite monochromator</p>	<p>Picture of the Equipment</p> 	
<p>Available Experiments/Techniques:</p> <p>single-crystal X-ray diffraction, automatic data collection, indexing and integration procedures; absorption correction based on crystal shape data; reciprocal lattice viewing possibility for detection of superstructures, twins and modulated structures</p>		
<p>Special Equipment:</p> <p>high temperature attachment for measurements from RT up to 1000 K</p>		
<p>Measurements on the equipment are currently done by:</p>	<p><input type="checkbox"/> Students  <input type="checkbox"/> Students after Introduction  <input checked="" type="checkbox"/> Students after extensive training  <input checked="" type="checkbox"/> Trained scientific service personal</p>	
<p>Recent Publications, where this instrument was important (optional): Give citation</p>	<p>J. Am. Chem. Soc. 2009, 131, 12172; 9;          J. Solid State Chem. 182 (2009) 995-1002;          Chem. Eur. J. 2008, 14, 7331; Angew. Chem. 2005, 118, 172.</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p><i>single-crystal structure determination examination of twinned crystals, modulated and superstructures</i></p>	