


Methods, IAAC, Crossing

<p>Differential scanning calorimeter</p> <p><i>Phase Transitions, Decomposition</i></p>	<p>Model: <i>Setaram DSC 131</i> Unit and Room: <i>Inorg. Chem. 3rd floor, R.341</i> Responsible: <i>Witali Beichel, 2036153</i> Further information: <i>Witali.Beichel@fmf.uni-freiburg.de</i></p>	
<p>Short Description:</p> <p>Differential scanning calorimeter with a plate shaped DSC rod for determination of transition points and enthalpies in a wide temperature range (-150-700 °C) at different scanning rates. . .]</p>	<p>Picture of the Equipment</p> 	
<p>Available Experiments/Techniques:</p> <p>Heating in the temperature range 25-700 °C, cooling from 25-(-150 °C) at different scanning rates (1-50 °C/min); use with different carrier gases; regulation of gas flow; aluminium, alumina and high pressure crucibles</p>		
<p>Special Equipment:</p> <p>-</p>		
<p>Measurements on the equipment are currently done by:</p>	<p><input type="checkbox"/> Students <input type="checkbox"/> Students after Introduction <input 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>Chem. Europ. J. 2009, 15, 1966-1976. J. Am. Chem. Soc. 2006, 128, 13427-13434.</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p><i>Determination of melting, crystallization, glass transition, decomposition point, dehydration, Cp, reaction enthalpies, transition enthalpies, reaction kinetics.</i></p>	