


Methods, FMF, Fiederle

<p style="text-align: center;">TGA-DSC</p> <p><i>Simultaneous Thermal Analysis</i></p>	<p>Model:</p> <p>Unit and Room:</p> <p>Responsible:</p> <p>Further information:</p>	<p><i>SPECS: Phoibos 150, XR-50, UVS 10/35; IQP 10/63; FG 15/40; FMF, 4th floor, R. 04007</i></p> <p><i>M. Fiederle, 203 4775</i></p> <p><i>www.fmf.uni-freiburg.de/service/servicegruppen/sg_matchar/chat/</i></p>
<p>Short Description:</p> <p>Simultaneous Thermal Analysis</p>	<p>Picture of the Equipment</p> 	
<p>Available Experiments/Techniques:</p> <p>Simultaneous Thermal Analysis of two or more techniques to a single sample at the same time.</p> <p>Differential Scanning Calorimetry DSC: Measurement of difference in energy input into a substance and a reference material as function of temperature, while the substance and the reference material are subjected to a controlled temperature program. (ICTA, ASTM E 473-85)</p> <p>Thermogravimetric Analysis TGA: A technique in which the mass of a substance is measured as a function of temperature or time while the substance is subjected to a controlled temperature program. (ICTA, ASTM E 914-83)</p>		
<p>Special Equipment:</p> <p>DTA with temperature RT – 1600 °C</p> <p>DSC with temperature -170 – 530 °C</p>		
<p>Measurements on the equipment are currently done by:</p>	<p><input type="checkbox"/> Students</p> <p><input type="checkbox"/> Students after Introduction</p> <p><input checked="" type="checkbox"/> Students after extensive training</p> <p><input checked="" type="checkbox"/> Trained scientific service personal</p>	
<p>Recent Publications, where this instrument was important (optional): Give citation</p>		
<p>Typical problems that may be solved with this instrument:</p>	<p>- <i>Measurements of thermo-dynamical data of various materials</i></p>	