

Methods, IPC, Weber

<p><b>EPR-Spectroscopy</b></p> <p><i>Electron Paramagnetic Resonance</i></p>	<p>Model: Bruker EMX 1/6          Unit and Room: Physical Chemistry, 3rd floor, R. 311          Responsible: Dr. Peter Jakes (203-6212), Dr. Sylwia Kacprzak (203-6207)          Further information: <a href="http://www.physchem.uni-freiburg.de/akweber/forschung/eprfolder/index.html">http://www.physchem.uni-freiburg.de/akweber/forschung/eprfolder/index.html</a></p>	<p><i>Bruker EMX 1/6          Physical Chemistry, 3rd floor, R. 311          Dr. Peter Jakes (203-6212), Dr. Sylwia Kacprzak (203-6207)  <a href="http://www.physchem.uni-freiburg.de/akweber/forschung/eprfolder/index.html">http://www.physchem.uni-freiburg.de/akweber/forschung/eprfolder/index.html</a></i></p>
<p>Short Description:</p> <p>Continous-wave EPR-Spectrometer operating at X-band (9–10 GHz) microwave frequency</p>	<p>Picture of the Equipment</p>	
<p>Available Experiments/Techniques:</p> <p>continuous-wave EPR</p>		
<p>Special Equipment:</p> <p>Low temperature unit (cryostat/resonator) for temperature range from 5 to 300 K.          Optical sample excitation (various continous-wave lasers with specific emission wavelengths)</p>		
<p>Measurements on the equipment are currently done by:</p>	<p><input type="checkbox"/> Students  <input checked="" 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>Biochemistry 46 (2007) 10694–10702</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p>– <i>identification of radicals</i>          – <i>electronic structure determination of paramagnetic centers (organic radicals, transition metal ions, defect centers)</i></p>	