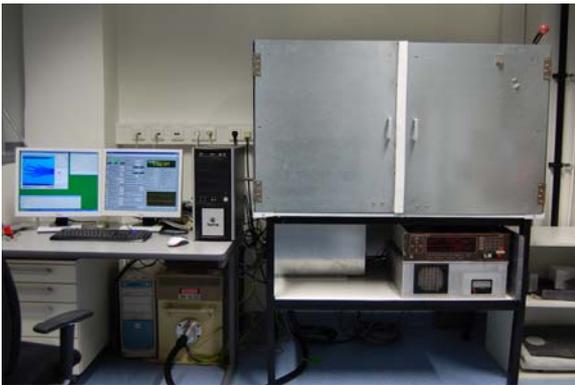


Methods, FMF, Fiederle

<p style="text-align: center;">4D Micro-CT</p> <p style="text-align: center;"><i>Small Animal Computed Tomography</i></p>	<p>Model: <i>FMF model</i> Unit and Room: <i>Uniklinik, Nuklearmedizin, laboratory 5</i> Responsible: <i>Dr. M. Fiederle, 203 4775</i> Further information: <i>www.fmf.uni-freiburg.de/service/servicegruppen/sg_matchar/chat/</i></p>	
<p>Short Description:</p> <p>Investigations on pixelated X-Ray semiconductor detectors and on spectroscopic/energy selective X-Ray CT of small objects/animals with high resolution</p>	<p>Picture of the Equipment</p> 	
<p>Available Experiments/Techniques:</p> <p>High resolution X-Ray imaging of small objects: 2D: X-Ray imaging 3D: X-Ray CT 4D: Spectroscopic/energy selective X-Ray CT</p>		
<p>Special Equipment:</p> <p>Microfocus X-Ray system Philips HOMX-161, energy 5 - 120 keV Positioning systems Vacuum systems High resolution Medipix 2.1 Detector (Si, CdTe - 55µm pixel pitch) Shielding CT control software</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>IEEE Transactions on Nuclear Science, Vol. 56, issue 4, pages 1795 - 1799. DOI 10.1109/TNS.2009.2025175</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p>- <i>Investigations on semiconductor X-Ray detectors</i> - <i>Investigations on 4D X-Ray imaging and tomography</i></p>	