


Methods, IMC, Mülhaupt

<p align="center">MALDI TOF/TOF Mass Spectrometer</p> <p align="center"><i>MALDI TOF/TOF</i></p>	<p>Model: Unit and Room:</p> <p>Responsible: Further information:</p>	<p><i>Bruker Autoflex III TOF/TOF Inst. f. Makromol. Chem. Room 01.012 Dr. Ralf Hanselmann 2036294 http://www.chemie.uni-freiburg.de/makro/zentrale.html#serv</i></p>
<p>Short Description:</p> <p>MALDI TOF/TOF Mass Spectrometer for automated MS and MS/MS identification of polymers and proteins Reflectron resolution broadband mode $\geq 13,000$ for Somatostatin (m/z 3,147) FWHM Reflectron sensitivity 500 amol [Glu1]-Fibrinopeptide B (m/z 1,570.7) at S/N > 20:1 Reflectron mass accuracy ≤ 20 ppm with external calibration</p> <p>Available Experiments/Techniques:</p> <p>Mass spectrometry measurements of polymers in -linear-mode, high resolution reflectron mode and TOF/TOF (LIFT) mode</p>		<p>Picture of the Equipment</p> 
<p>Special Equipment:</p> <p>Polymerix Software Module for Analysis of Homo- and Copolymers</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>Macromolecular Rapid Communications (2009), Volume 30, Issue 15, Pages 1323-1327</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p><i>-determination of molar masses and molar mass distributions of polymers in a molar mass range between 100 and 100000 daltons -analysis of end groups, composition of copolymers, structure of repeating units after polymeranalogous reactions, side reactions</i></p>	