Methods, IMC, Mülhaupt

Cryo-Microtome *Room-Temperature Microtome*	Model: Unit and Room: Responsible: Further information:	*Leica ULTRACUT UCT (Leica) with Cryochamper* *ZfN, Albertstraße 23,back building, basement, room nr. 7* *Dr. Ralf Thomann* *http://www.fmf.uni-freiburg.de/service/dienstleistungen/mikroskopie/index_htm/*

Short Description: Cryo Microtome for the preparation of TEM and AFM samples	Picture of the Equipment 
Available Experiments/Techniques: The Microtome is used to prepare ultrathin sections (50nm) for TEM and/or to produce ultraflat surfaces for AFM and SEM bulk investigations. The machine can be used for soft materials like polymers. It is usually used in the cryo mode (-120°C) but can also be used for room temperature sectioning.	
Special Equipment:	
Measurements on the equipment are currently done by:	☐Students ☒Students after Introduction ☐Students after extensive training ☒Trained scientific service personal
Recent Publications, where this instrument was important (optional): Give citation	Macromolecules 2009, 42(15), 5684-5699. Macromolecular Materials and Engineering (2009), 29 (46-7), 380-388.
Typical problems that may be solved with this instrument:	*Sample preparation for TEM, AFM abd SEM. Most important preparation tool to investigate the bulk morphology of block-copolymers, belnds, naocomosites etc.*