Methods, IMC, Mülhaupt

Modular Advanced Rheometry System for Soft Matter Mechanical Spectroscopy, Rheometry	Model: Unit and Room: Responsible: Further information:	FMF, second floor,R02015 Dr. Yasmin Korth, 203 4783
Short Description: Universal Mechanical Spectrometer for linear and nonlinear viscoelastic properties of soft matter in wide Temperature (-100 °C to 200 °C) and frequency (0.001 to 100 Hz) ranges Available Experiments/Techniques: Dynamic moduli in oscillatory shear flow, viscositis		Picture of the Equipment
in shear flow, all types of strain controlled experiments including relaxation modulus determination Special Equipment: add on for microscopical observation during flow		
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		S. Patachia, C. Florea, Chr. Friedrich, Y. Thomann Tailoring of poly(vinyl alcohol) cryogels properties by salts addition, Express Polym. Lett. 3 (2009), 320-331
Typical problems that may be solved with this instrument:		-Structure-rheological properties relationships for soft matter, including colloids. -Determination of characteristic viscositis and moduli of matter, relaxation time spectra -visualization of flow induced structures