Methods, IPC, Bartsch

Dynamic and Static Light Scattering Light Scattering	Model: Unit and Room: Responsible: Further information:		ALV/ DLS/ SLS-5000 "Compact Goniometer System Macromol. Chem., 3 rd floor, R. 03.007 Dipl.Chem. Malte Wiemann, 203 6266 http://www.colloids.uni- freiburg.de/Methoden/ Picture of the Equipment
ALV DLS/SLS Compact Goniometer System for combined use in static and dynamic light scattering experiments equipped with a HeNe Laser (23mW; 633 nm). Angular range: 10° to 135° (dynamic) and 25° to 135° (static). Detection system: either a SO-SIPD dual photomultiplier operating in pseudo cross correlation mode or an Avalange Photodiode (APD). Typical temperature range: -5°C - 50°C. Available Experiments/Techniques: Zimm-Plot (Mw, Rg, A2), determination of particle form factors (R, Polydispersity), determination of hydrodynamic radii (Rh).			
Special Equipment:			
Measurements on the equipment are currently done by:		⊟St ⊠St ⊠Tr	udents udents after Introduction udents after extensive training ained scientific service rsonal
Recent Publications, where this ins was important (optional): Give citation	trument		Polym. Sci. 283, 49 (2004); muir 26, 89 (2010)
Typical problems that may be solve instrument:	ed with this	collo size,	acterization of (bio)macromolecules, ids and nanoparticles with respect to size distribution, shape and internal itecture.