Methods, IAAC, Hillebrecht

information:

UV-Vis Spectroscopy

Model: Varian Cary 300 Scan UV-Vis

Spectrometer

Unit and Room: | Inorg. Chem., R. 142, (Chem. I)

Responsible: Dr. Henning Höppe Further http://portal.uni-

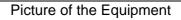
freiburg.de/fkchemie/Ausstattung

Short Description:

Cary 300 Scan UV-Vis spectrometer equipped with mercury UV lamp, halogen Vis lamp, premonochromator, sealed optics and variable slits.

Available Experiments/Techniques:

Absorption and diffuse reflectance measurements (200-800nm, minimal spectral bandwidth 0.2 nm)





Special Equipment:	
Sample holder for solid samples, integrating sphere for reflection measurements	
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	K. Kazmierczak and H. Höppe, Eur. J. Inorg. Chem., 11 (2010)
Typical problems that may be solved with this instrument:	Characterization of optic transitions (absorption bands and band gaps), measurements on reflecting samples