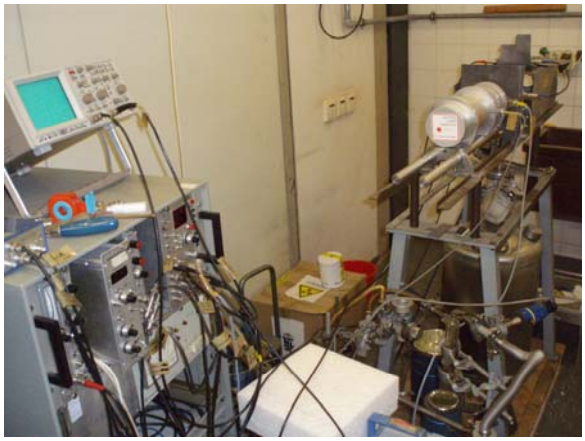
57Fe-Mößbauer-spectroscopy *nuclear-/resonance spectroscopy*	Model: Unit and Room: Responsible: Further information:	*Wissel Mößbauer-Spektrometer* *Chemie I,* *Prof. C. Röhr*

Short Description: Recoil-free nuclear resonance of gamma quants between an emitting (radioactive) 57Co source and an adsorbing Fe-containing sample (needs to be in the solid state)	Picture of the Equipment 
Available Experiments/Techniques: 57Fe nucleus, moving source, sample at various temperatures between -100 °C up to 300 °C	

Special Equipment: low and high temperature equipment for cooling or heating of the sample	
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	
Typical problems that may be solved with this instrument:	*Fe oxidation state, high- or low-spin configuration, Fe coordination mode, molecular and site symmetry, Fe-ligand bonding character, Fe magnetic state*