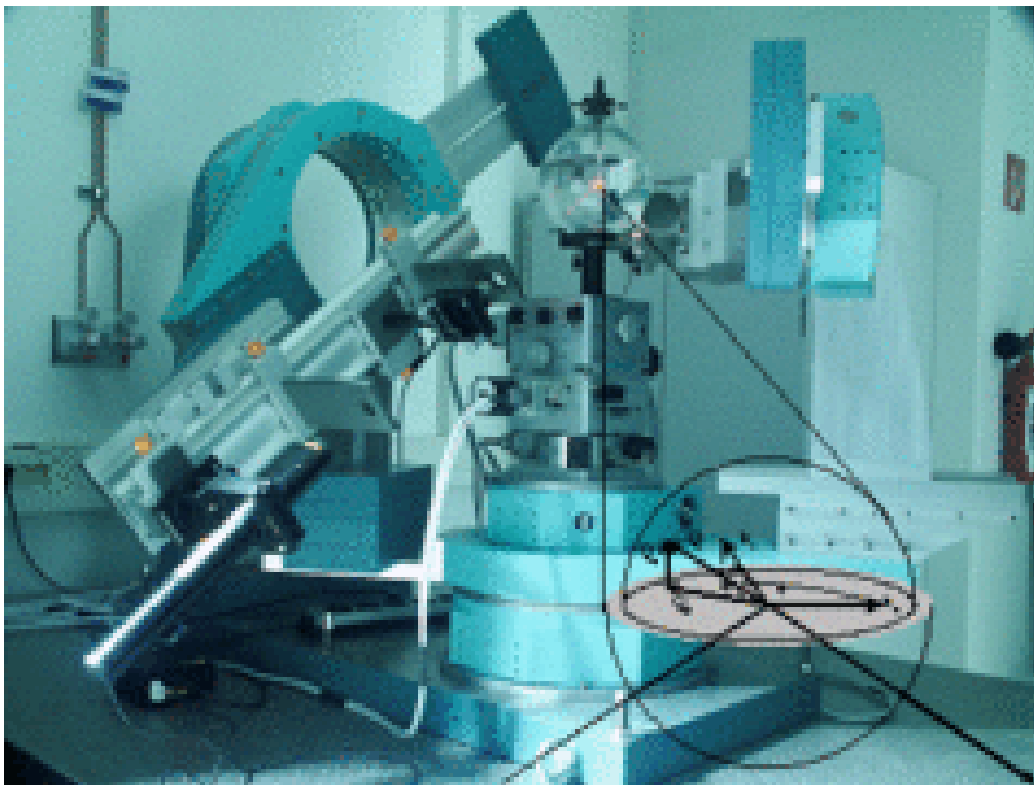


## **Evanescent Wave Light Scattering (EWLS) :**

Dynamic light scattering with evanescent illumination is used to study the dynamics of colloidal suspensions near a planar solid/liquid interface. The instrument is based on a three axis diffractometer custom made by Huber Diffraktionstechnik. With this set up it is possible to change the scattering vector component normal and parallel to the interface independent of each other. This allows for the model free distinction between the particle mobility normal and parallel to the interface. The instrument is equipped with a 532 nm Nd/YAG or a 633 nm He/Ne Laser as alternative primary sources. The scattered light is collected with a monomode fiber attached to a splitter, which allows detection with a dual avalanche diode system. The TTL output of the diodes is correlated with an ALV 6010 correlator.



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