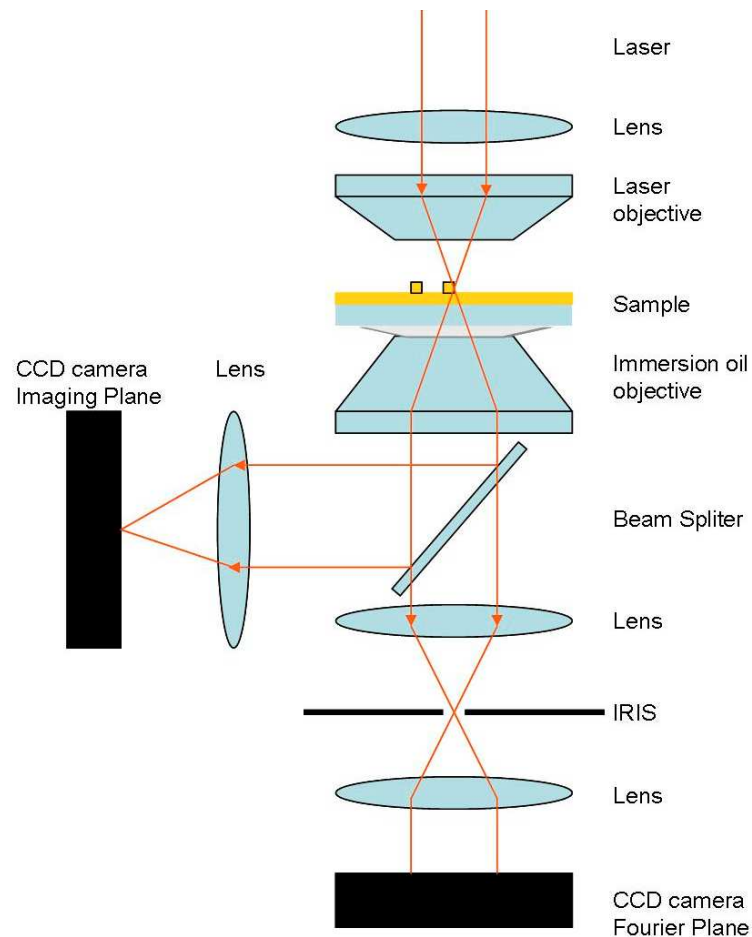


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The purpose of the visit was to gain knowledge about technical principles and practical using of the Leakage Radiation Microscopy (LMR) technique. The host of my stay, prof. Jacek Fiutowski, specializes in use LMR technique for characterization of the surface plasmon polaritones (SSP) in nanomaterials.



Leakage radiation microscopy setup

In order to get familiar with the new experimental technique, first I started with the SSP detection with the leakage radiation spectroscopy on the well-characterized sample. The next step was to measure the same sample with the new constructed machine for LRM. The experimental setup was still under optimization and was extended for the purpose of measuring in Fourier plane. This situation gave me an excellent opportunity to learn about the details of technical realization of LMR. During the whole training we were optimizing each setup element and by this I had a unique chance to see the influence of each machine part on the measurement results quality. The visit allowed me to gain knowledge about experimental technique, new for me, and also to increase my skills in laboratory work.