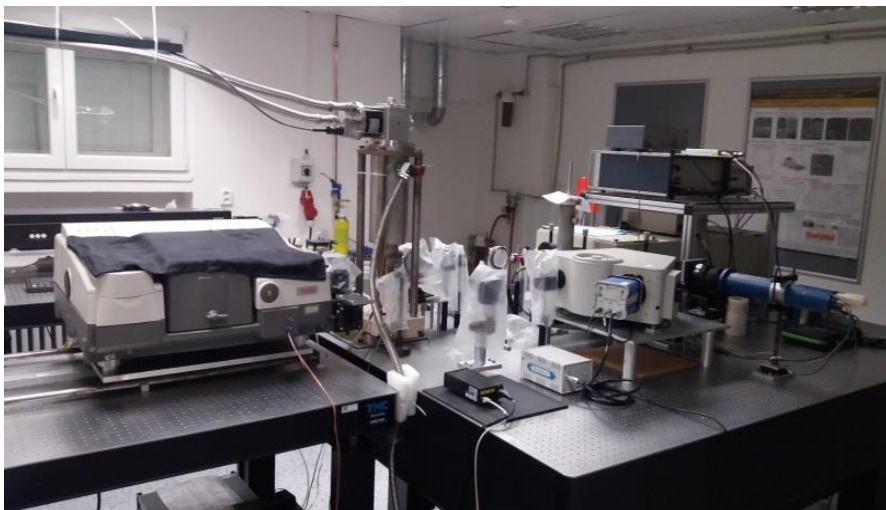


## Laboratory for optical characterization of materials



### UV-VIS spectrometr:

Specord 210 (200-1100nm);  
Nitrogen Cryostat 77K, sample in  
exchange gas - OptistatDN2,  
Temperature range 77-500K.

### PL setup:

- ✓ Sumitomo optical He closed cycle cryostat (T=4.2-300K);
- ✓ Monochromator: THR 1000 (Jobin-Yvon) and iHR 320 (Horiba);
- ✓ FTIR spectrometer Nicolet 5700 (beamsplitter: CaF<sub>2</sub>, quartz);
- ✓ Detector: GaAs photomultiplier with coller (R943-02, C10372-02, Hamamatsu; 160-930 nm), LN cooled S1 Photomultiplier tube (0.3-1 $\mu$ m), LN cooled high-purity Ge photodiode (0.8-1.8 $\mu$ m), Back ilumineted UV enhanced CCD (0.2-1.1 $\mu$ m), TE cooled InGaAs (0.5-2.6  $\mu$ m), LN cooled InSb (2-5.5  $\mu$ m), LN cooled MCT-A (0.8-8.3  $\mu$ m).
- ✓ Light sources: Ar (514nm), HeCd(325nm), HeNe(632.8nm) and semiconductor lasers of various wavelengths are available. Passively Q-switched microchip laser PULSELAS-P-355-200 (355nm, 532nm, 1064 nm).

