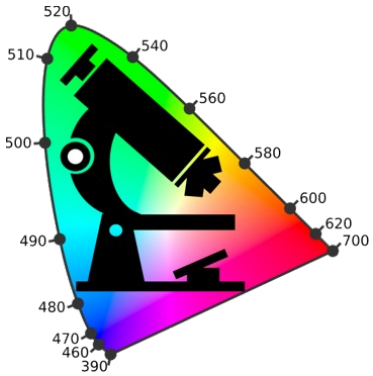
The Laboratory of Colorimetric Microscopy

C-Microscopy Lab



- **Colorimetric Microscopy (C-Microscopy)**
  - Quantitative Color Measurement at Microscale (D65 illuminant)
  - Dominant Wavelength and Excitation Purity Maps
  - Tristimulus Values X, Y, Z, Lab, RBG, Colorimetric Calculations
  - Hyperspectral Reflactance R (colorimetrically recovered)
  - Resolution ~ 1 micron

- **Colorimetric Measurements (solids - VIS Colorimeter)**
  - 6mm Aperture, D65 illuminant, Lab Values, RGB, QC

- **Colorimetric Measurements (liquids - VIS Colorimeter)**
  - Transmittance and Absorbance at 650 nm (red), 600 nm (orange), 570 nm (yellow), 550 nm (green), 500 nm (blue), 450 nm (violet)
  - Turbidity 0-400 NTU (measurements at 850 nm, 90deg configuration)

- **UV Microscopy (395nm)**
  - Resolution ~ 1 micron

- **Roughness Determination from Cross Section (microscale)**
  - Height Profile Extraction
  - Roughness Parameters
    - Ra - average roughness, Rq - root-mean-square roughness

- **Colorimetric Calculations, Data Analysis and Machine Learning**

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