

## Ma 2 - LEED

### Physics:

- Bragg and Laue description of diffraction
- Reciprocal lattice
- Lattice planes, Miller indices
- Scattering of electrons, inelastic mean free path
- Single vs. multiple scattering
- Single-crystal surfaces and superstructures

### Technical:

- Ultrahigh vacuum
- Calibration of electronic equipment
- Computer skills
- Image recording

### Data analysis:

- Image analysis, image processing
- Intensity vs. energy curves
- Error and precision measurements
- Lattice constants calculation