

Ma 6 - AFM

Physics:

- Chemical, van der Waals, and electrostatic force
- Local contact potential difference
- Piezoelectric effect
- Damped and driven harmonic oscillator

Technical:

- Piezoscanner
- Feedback loop
- Spectroscopy measurements

Data analysis:

- Linear and quadratic fit of spectroscopic data
- Error propagation
- Systematic error due to piezo creep and drift