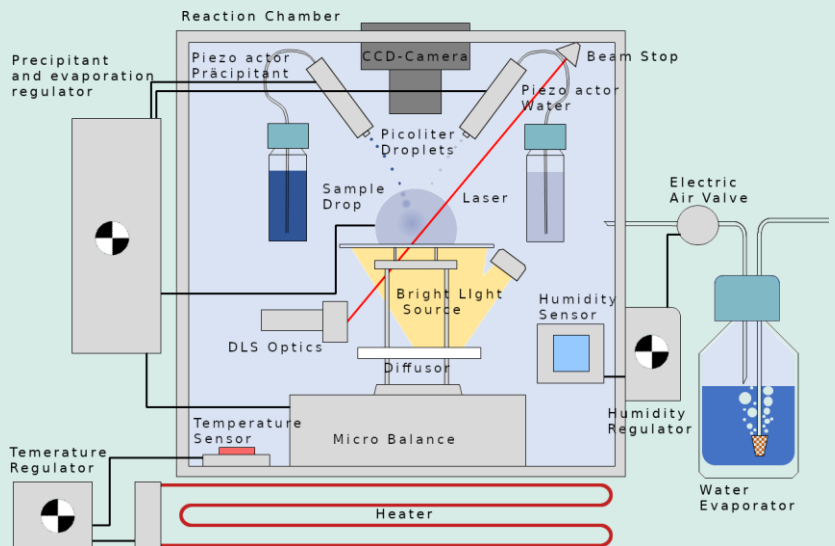


The Interactive Crystallization Set-up

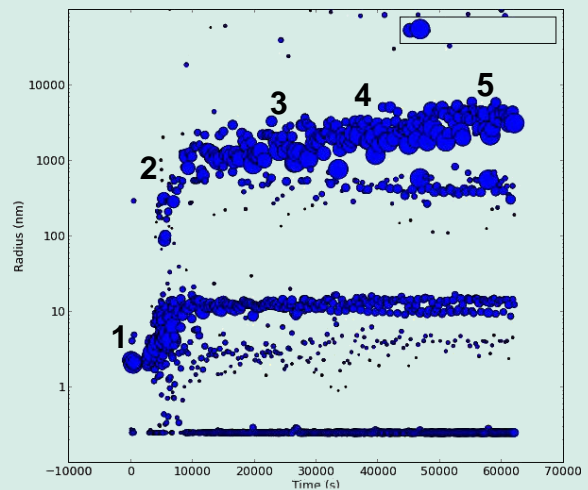
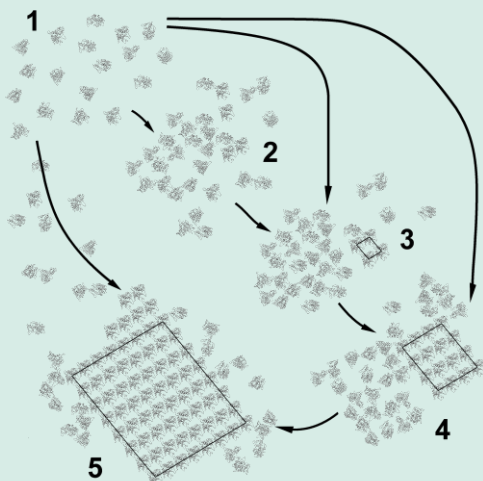
Piezo actors, micro balance and in situ DLS are the key components of this set-up. An enclosing temperature and humidity controlled chamber is essential as well.

- Fully automated experiment conduction
- Intervention possibilities at all times
- Quick Comparison with previously conducted Experiments
- Qualitative and Quantitative Output of size distribution and drop composition (+/- 2% accuracy)
- SQL-database data Management



Interpretation of the Nucleation DLS Signature

Crystallization in its very essence means to provide conditions that small particles assemble themselves to larger objects. In contrast to amorphous aggregation there's a delicate energetic situation avoiding kinetic traps leading to random oriented binding, finally resulting in an energetically favorite crystalline ordered solid state. These differences can be distinguished via DLS



- Neutron Diffraction
- Microcrystals for SFX
- Nanocrystals for Micro-ED
- Ligand Soaking
- Cryoprotection
- Crystal Crosslinking

