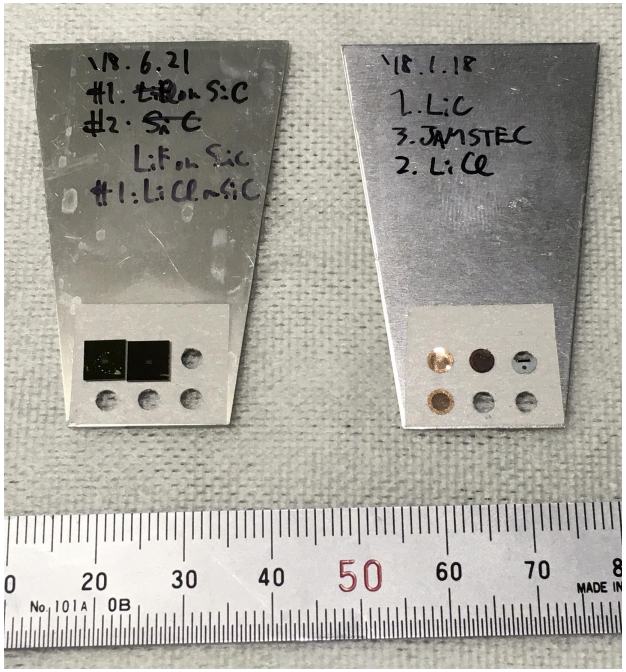
How to prepare the sample?

Thickness of the sample

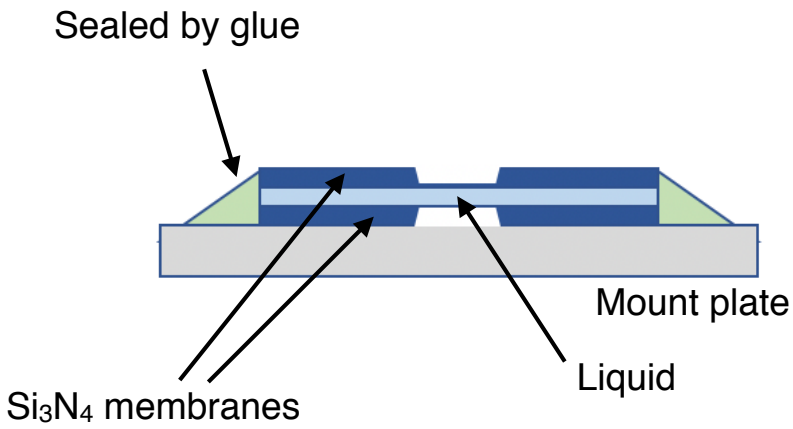
- Similar as TEM. Basically 100~150 nm may be the best (for C K-edge)
- Depends on signals and cross section of the element.
  - Ex. 300~500 nm for O K-edge of polymer sample
- (For beginners) It's preferable to prepare the samples with several different thickness

Support of the sample on

- Grid
- Micro grid
- FIB grid
- Si_3N_4 membrane (t50~100nm)
- SiC membrane
- etc…



Static Liquid Cell



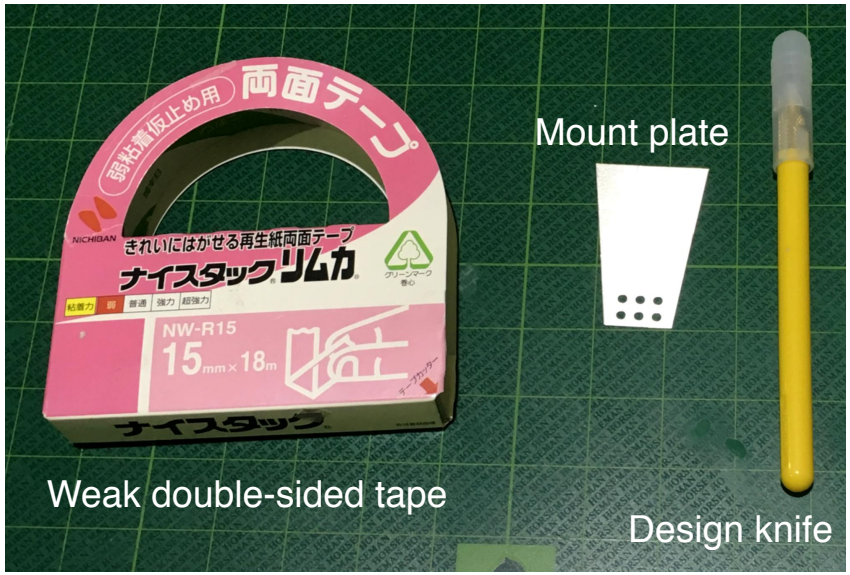
How to mount the sample?

You must notice that you're handling the sample in 10 nm scale!

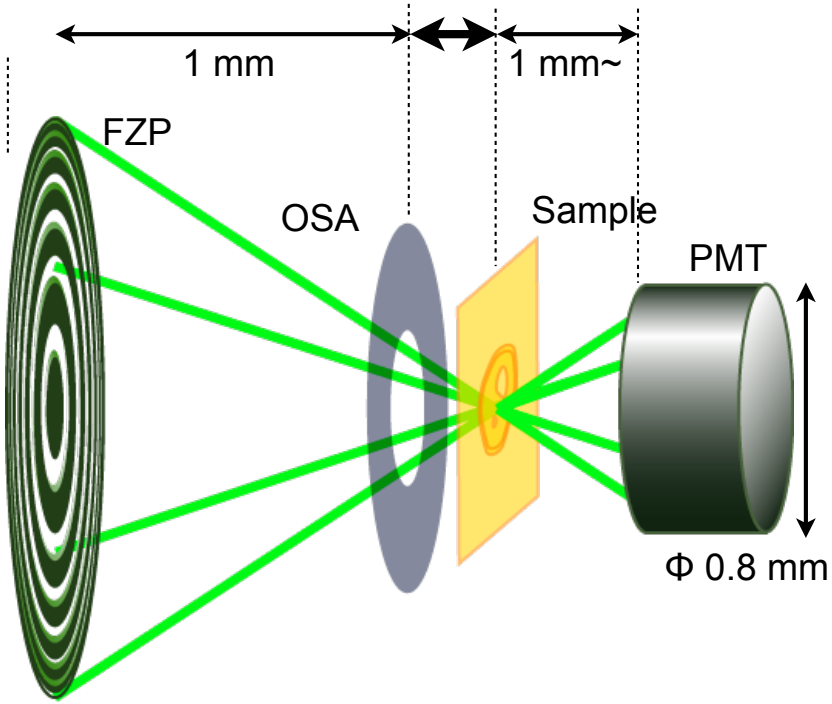
What causes drift?

- Glues are almost BAD
- Carbon tape is BAD
- Dusts and fibers
- Stress

My recommended items



Schematics of dimension



Mount the sample on the top of the plate as much as possible