

Reconstruct data

General instructions

- [General instructions](#)
- [Reconstructions with Matlab](#)

i In order to reconstruct your data yourself as well as access (view) the reconstructed data you need a [DESY account](#). Ask your local contact if do not have a DESY account. The account should be created before the beamtime starts!

Reconstructions with Matlab

This is currently the standard reconstruction software for the P05 μ CT setup.

1. Use FastX or ssh -X to log in on a maxwell node (see [External user account](#))
2. In your maxwell home directory, clone matlab reco software

```
git clone https://github.com/moosmann/matlab
```

3. This will create a matlab folder in your home folder. Start matlab with the startscript provided with the reco software

```
cd matlab  
./startmatlab.sh
```

4. In Matlab open matlab/experiments/p05/p05_reco.m
5. Edit top section of the p05_reco.m script
6. Run reco script

Citation for publications

In order to acknowledge the work for the reconstruction software, please cite the following paper in your publications:

Moosmann, J. et al. "Time-lapse X-ray phase-contrast microtomography for in vivo imaging and analysis of morphogenesis", Nat. Protocols 9, 294-304 (2014)

DOI: 10.1038/nprot.2014.033