

MLS course in microscopy methods:
FRAP, Single particle tracking, PALM

Monday, September 6th

Fluorescence recovery after photobleaching

9³⁰ to 12 am: lecture

GFP, microscopy basics, data acquisition, example data, problems

2 to 4 pm: experiments in the lab

FRAP in supported membrane bilayers and cells

4 to 6 pm: data analysis

analysis of digital images, discussion of data

Tuesday, September 7th

Single particle tracking

9³⁰ to 12 am: lecture

labeling approaches, particle localization, particle tracking, localization accuracy, example data, problems, comparison FRAP, SPT

2 to 4 pm: experiments in the lab

SPT in supported membrane bilayers and cells

4 to 6 pm: data analysis

single particle tracking, discussion of data

Wednesday, September 8th

Photoactivated localization microscopy

9³⁰ – 10³⁰ am: lecture

10³⁰ – 12 am: demonstration of PALM microscopy and data analysis