Jméno: **František KITZBERGER** Osobní číslo: **B16292**

Průběh obhajoby diplomové práce:

1/ Outline of the thesis given by F.K.: introduction CP43
intrinsic - binds PSII STROMA
PsbO; PsbQ chlorophyll
6 transmembrane α-helices

2/ Preparation of CP43 protein - recombinant CP43 ect
cloning
overexpression: design of the CP43ect construct
↳ recombinant protein GST HIS TCS CP43ect,
Protein expression into incl. bacteria thrombin cleavage site
3/ Refolding of misfolded ↳IB containing CP43ect
Lauryl sarcosine protein it did work whereas urea/guanidinium chloride
4/ His-tag affinity chromatog upon thrombin cleavage
Protein purification
5/ MALDI TOF: confirmation of the sequence integrity
6/ Stability testing: Uncertain N-term
7/ NMR measurements
preparation of samples
• 2D spectra
• 3D spectra
8/ Resonance assignments
↳ in CARA
9/ Cryo-EM structure
predicting α-helix
10/ Summary
Extrinsic domain CP43
↳ stable sample for NMR
NMR monitored titrations
with HR PsbO

Question: the lowest concentration of
protein for NMR? (≥ 0.1 mM)
• MALDI TOF fractionation?

Body:
Klasifikace: EXCELLENT
Celková klasifikace:
Datum obhajoby: 29/5/2019

V. Zachleder
podpis předsedy

Hodnocení ústních zkoušek: