

**Supervisor's/Referee's Comments:**

Ondřej Mandula spend a large time contributing to his thesis in my lab at King's College London working on the details of reconstruction. He has an impressive background of optics, Fourier-optics and image processing, which made him work very independently. In joined meetings we discussed possible reconstruction tasks and he often surprised me by not only being able to realise these ideas in a short time, but often providing insights beyond what was discussed. He also showed an enthusiasm for the subject which I am sure will make him an even great researcher in the future. The thesis is very thorough work containing some of his original ideas. It is also excellently presented and will be given to others for a detailed introduction to the field.

**Questions raised (and to be answered by the author during the Thesis Defence):**

How can a reconstruction deal with patterns illuminated through the objective lens, which also possess a three-dimensional structure (e.g. 3 orders in the back-focal plane leading to 5 intensity orders)?

**Supervisor's/Reviewer's recommendation on Thesis rating:**

excellent  very good  standard  reject

Done in .....London.....  
Date .....01/05/2008....

Name ...Dr. Rainer Heintzmann.....

Signature



# Thesis Review

Faculty of Mathematics and Physics  
Charles University in Prague

- Supervisor's Review                       Referee's Review \*\*  
 BSc. Thesis                                       MSc. Thesis

Author: Ondřej M a n d u l a  
Thesis title: Pattern Excitation Microscopy  
Study program: Physics / Biophysics and Chemical Physics  
Submitted: 2008

Supervisor/Referee: Rainer Heintzmann, PhD.  
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**Thesis quality (technical field and expertise):**

- excellent  very good  standard  substandard  nonconforming

**Objective accuracy (error appearance):**

- nearly perfect  standard  frequent, but minor  serious errors

**Thesis results:**

- original  both original and compiled  productive compilation  copied

**Thesis size:**

- large  standard  just acceptable  insufficient

**Thesis quality (style and grammar, and graphic arrangement):**

- excellent  very good  standard  substandard  nonconforming

**Misprints:**

- negligible  acceptable number  very frequent

**Overall thesis quality:**

- excellent  very good  standard  substandard  nonconforming

\*\* Copy and paste this check box, , if it is applicable.