# Report on Bachelor / Master Thesis

**Institute of Economic Studies, Faculty of Social Sciences, Charles University in Prague**

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| **Student:** | **Bc. Jan März** |
| **Advisor:** | **Mgr. Lukáš Vácha, Ph.D.** |
| **Title of the thesis:** | **Transition Periods and Long Memory Property** |

*OVERALL ASSESSMENT (provided in English, Czech, or Slovak):*

The thesis uses Monte Carlo simulation techniques to examine structural breaks within time series and focuses on long memory. Authors uses several random processes having different types and modifications of structural changes, which creates the possibility to descibe and investigate higher variety of parameters and their influence.

Thesis is quite condense, reader is directly thown into the topic. I whould expect a bit wider introduction into the topic combined with summary of up-to date state of academia within the area of interest. That would also allow author to clearly describe what the expected contribution would be and in the conclusion to summarize it. Motivation is clear, yet background of the investigated hypotheses could be better presented.

Methods used are well described and suitable for conducted analysis. Thesis builds on study Granger and Hyung (2004). Process is well described and allows replication of the study, extensive results are described properly. Provided results contribute clearly to the academia.

Regarding the manuscipt, I have only minor remarks – all figures and tables are in apendix, some of them could be directly in the text so the reader have them at hand, when author describes them. Also, when describing behaviour of ARFIMA, it could be mentioned at least in apendix, not just a link to an external study. Numbering of all equations would allow to refer to them easily in the text.

**To conclude, for the above reasons, I suggest grade A for defense.**

For the defence, I would like to ask the author, what he would sugest for further research and what he considers as the most interesting finding of his research.

*SUMMARY OF POINTS AWARDED (for details, see below):*

| CATEGORY | | POINTS |
|---|---|---|
| *Literature* | *(max. 20 points)* | 12 |
| *Methods* | *(max. 30 points)* | 28 |
| *Contribution* | *(max. 30 points)* | 28 |
| *Manuscript Form* | *(max. 20 points)* | 17 |
| **TOTAL POINTS** | *(max. 100 points)* | **85** |
| **GRADE** | **(1 – 2 – 3 – 4)** | **1** |

*NAME OF THE REFEREE: Petr Polák*

*DATE OF EVALUATION: 15. 6. 2015*

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***Referee Signature***

## EXPLANATION OF CATEGORIES AND SCALE:

**LITERATURE REVIEW:** *The thesis demonstrates author's full understanding and command of recent literature. The author quotes relevant literature in a proper way.*

| Strong | Average | Weak |
|--------|---------|------|
| 20 | 10 | 0 |

**METHODS:** *The tools used are relevant to the research question being investigated, and adequate to the author's level of studies. The thesis topic is comprehensively analyzed.*

| Strong | Average | Weak |
|--------|---------|------|
| 30 | 15 | 0 |

**CONTRIBUTION:** *The author presents original ideas on the topic demonstrating critical thinking and ability to draw conclusions based on the knowledge of relevant theory and empirics. There is a distinct value added of the thesis.*

| Strong | Average | Weak |
|--------|---------|------|
| 30 | 15 | 0 |

**MANUSCRIPT FORM:** *The thesis is well structured. The student uses appropriate language and style, including academic format for graphs and tables. The text effectively refers to graphs and tables and disposes with a complete bibliography.*

| Strong | Average | Weak |
|--------|---------|------|
| 20 | 10 | 0 |

### Overall grading:

| TOTAL POINTS | GRADE | | |
|--------------|-------|-----------------|-------------------------------|
| 81 – 100 | 1 | = excellent | = výborně |
| 61 – 80 | 2 | = good | = velmi dobře |
| 41 – 60 | 3 | = satisfactory | = dobře |
| 0 – 40 | 4 | = fail | = nedoporučuji k obhajobě |