

Report on Bachelor Thesis

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

Student:	Pavel Irinkov
Advisor:	PhDr. Ladislav Krištofuk, Ph.D.
Title of the thesis:	Construction of a quantum finance model of option premia

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

The thesis introduces a generalized Black-Scholes pricing model using the quantum finance paradigm. In the thesis, Pavel shows his deep understanding of stochastic calculus well above a standard level of bachelor studies at IES, and I dare say also above the level of master studies. The aim that Pavel set for himself has been very ambitious and during the writing itself, it proved too ambitious and the original ideas had to be trimmed. Nonetheless, the thesis still shows very advanced methods and clear thinking of the author. The text is well structured and even though it is practically purely mathematical, it reads well. The only thing that is missing is the application on real data which, however, can be met at further levels of studies.

Pavel has discussed the thesis on a regular basis and all crucial comments of mine have been incorporated in the final text so that I have no additional questions for the defense. As mentioned above, the thesis is well above a standard level of bachelor theses at the Institute and due to that fact and all the above mentioned, **I suggest the thesis to be defended with grade "Excellent" (Grade A).**

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

CATEGORY	POINTS
Literature (max. 20 points)	19
Methods (max. 30 points)	30
Contribution (max. 30 points)	28
Manuscript Form (max. 20 points)	20
TOTAL POINTS (max. 100 points)	97
GRADE (1 – 2 – 3 – 4)	1

NAME OF THE REFEREE: PhDr. Ladislav Krištofuk, Ph.D.

DATE OF EVALUATION: 20.1.2014

Referee Signature