**Belarusian State University   
Faculty of Mechanics and Mathematics  
Department of nonlinear analysis and analysis of the economy**

**Annotation to the diploma work  
"** **Refinement of concepts a Nash equilibriums "**

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Diploma work contains:

- 35 pages

- 3 used source .

Keywords: NORMAL FORM, EXTENSIVE FORM, POSITIONAL GAME, INFORMATION SETS, NASH EQUILIBRIUM, SEQUENTIAL EQUILIBRIUM, STRATEGY, TREE GAMES, PRIZES.

The research paper describes various to present the game, namely, the extensive and normal forms are also considered equilibrium, subgame perfect relatively weak and strong sequential equilibrium, perfect balance for games in normal form. The concept of Nash equilibrium.

The aim of the diploma work is studying the probabilistic models of inventory management theories, methods and strategies of constructing an optimal solution. Significant is the use of solutions, not only in the mathematical sciences, but also in everyday life, in the workplace.

The aim of the diploma work is to explore and describe the various modifications of the concept of Nash equilibrium for games in extensive and normal form, deliberately excluding non-optimal solutions: advanced with respect to the sub-game equilibrium, weak and strong sequential equilibrium, perfect equilibrium for games in normal form.

Diploma work is theoretical nature. Its results can be used in further research of refining of concepts a Nash equilibriums.