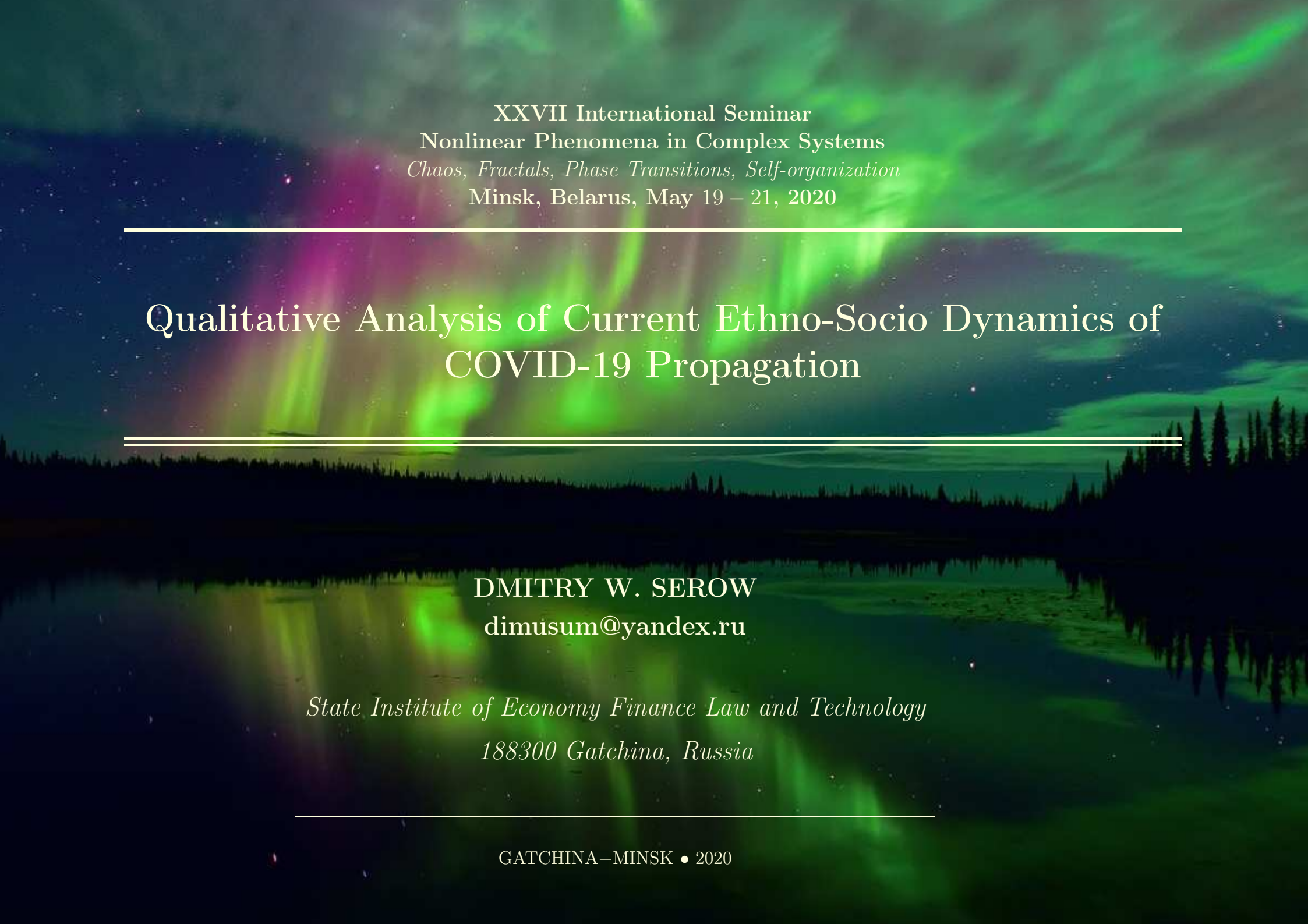

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Qualitative Analysis of Current Ethno-Socio Dynamics of COVID-19 Propagation

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The COVID-19 propagation data is still raw and incomplete, so only preliminary results can be represented. However it is already possible to draw simple conclusions:

- $\sim 1/3$ of infected people are US citizens;
- $\sim 1/3$ of infected people are citizens of the European Union;
- $\sim 1/3$ of infected people from Russia are residents of Moscow, Moscow region, and Saint Petersburg! Moreover Moscow is the most infected city in the World (more then 1 % infected residents).

This means that the sad forecast for the countries of the «Golden billion» is justified.

However

- the least infected are Finno-Ugric and Paleoasiatic residents in the temperate zone of Eurasia;
- residents of Southeast Asia, Polynesia, and Africa are the least infected.

It is clear that the COVID-19 propagation directly dependent on the language and culture of the people who inhabit this area.

1 The technique of additive analysis

The number of infected people is constituted to be an iincreasing sequence of integers. Because the additive number theory methods for current data analysis on COVID-19 propagation has been applied. The dynamic structure of COVID-19 propagation differs qualitatively for different countries and regions and one depends on the ethnocultural diversity and social structure of society.

The Minkowski sum of sequences of integers has percolation properties. Pandemics are also percolating (as Dr. V. E. Tsegelnik (St.-Petersburg State University) pointed out to me). This is why the COVID-19 pandemic develops according to a degree law. The degree of greater than one corresponds to the γ-density (onset of percolation clusters) and the degree less than one corresponds to the additive dimension (extinction of percolation clusters).

The result of a detailed additive analysis of the COVID-19 pandemic can be seen in the fall of this year.