



# NORDITA

Nordic Institute for Theoretical Physics



## PHYSICS AND SOCIAL NETWORK DYNAMICS OF THE MARKETS

30 May — 3 June 2016

### TIMETABLE

All talks are in: **132:028**

#### Monday, 30 May 2016

- |               |  |
|---------------|--|
| 9:30 - 10:00  | <i>Alexander Balatsky</i><br><b>Welcome</b>                                  |
| 10:00 - 11:00 | <i>Matteo Marsili</i><br><b>It's the entropy, stupid!</b>                    |
| 15:00 - 16:00 | <i>Stanislav Borysov</i><br><b>Energy-based models in finance and beyond</b> |

#### Tuesday, 31 May 2016

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|---------------|---|
| 10:00 - 11:00 | <i>Dima Shepelyansky</i><br><b>Introduction to Google matrix and world network of economic activities</b> |
| 13:30 - 14:30 | <i>Leonardo Ermann</i><br><b>Google matrix analysis of the multiproduct world trade network</b>           |

15:00 - 16:00 *Adi Shamir*  
**Analysis of bitcoin network transactions**

## Wednesday, 1 June 2016

10:00 - 11:00 *Luciano Pietronero*  
**New Metrics for Economic Complexity: Measuring the Intangible Growth Potential of Countries**

13:30 - 13:50 *Yonatan Berman*  
**Far from equilibrium: Wealth reallocation in the United States**

13:50 - 14:10 *Erik Aurell*  
**Against Maximum Entropy**

14:10 - 14:30 *Andrzej Jarynowski*  
**Complexity in phonographic market**

15:00 - 16:00 *Victor Yakovenko*  
**Economic inequality from statistical physics point of view**

## Thursday, 2 June 2016

10:00 - 11:00 *Nathan Kleeorin*  
**Solar activity, climate and their effect on the markets**

13:30 - 14:30 *Joachim Mathiesen*  
**Using social big data to predict human activity patterns and network formation**

## Friday, 3 June 2016

10:00 - 11:00 *Jensen Mogens*  
**Asymmetry and Synchronization in Stock Markets**

13:30 - 14:30 *Igor Rogachevskii*  
**Analytical methods in turbulent transport**

17:00 - 17:30 *Alexander Balatsky*  
**Closing Remarks**