

The Open Seminar & The Open Webinar

This is the manifesto of a Mathematics seminar series entitled “The Open Seminar” (TOpS) that has been taking place at Hebei Normal University (HebNU) since April 2019 and has evolved into “The Open Webinar” (TOW) in February 2020.

Aims. The basic goal of TOpS is to expose graduate and (senior) undergraduate students to some of the threads and trends of mathematical research; to create opportunities for them to come in contact with topics they may not have encountered in their university studies or in the early stages of their academic career; and to open up and strengthen collaborations among faculty members of the School of Mathematical Sciences at HebNU.

On the other hand, TOW welcomes contributed talks from experts from all around the globe, with the objective of enriching the educational offer of the School and creating additional opportunities for the local mathematical community to come in contact with researchers from other universities (from China and abroad).

Since TOpS and TOW are aimed to bring together students, teachers, and researchers with different backgrounds, the discussion will be wide-ranging. Volunteers and invited experts will touch on topics that are *not* usually covered at the tertiary level. Participants will thus have a chance to get acquainted with recent developments in Mathematics, and to enlarge their knowledge and understanding of the discipline through a series of talks specifically designed for novices and newbies.

Format. The basic format is a one-hour talk (followed by questions and discussion), but different arrangements are possible. Among others, this includes longer talks (up to a maximum of two hours, with a short break in the middle) or mini-courses in cutting-edge topics.

All talks shall be delivered in English with the aid of slides and made accessible to non-specialists. In particular, we encourage the speakers to prepare their slides without sparing on details that can help the audience follow and enjoy their presentation.

Updates. Announcements concerning TOpS and TOW will be regularly posted to groups purposely created on DingTalk (<https://www.dingtalk.com/en>). Whoever is interested to join, can contact the organizers and ask them to be added into the group.

When. In principle, every Thursday at 7 pm (Beijing time). But it is better to regularly check for updates on the website of the School of Mathematical Sciences:

<http://sxxxy.hebtu.edu.cn/>

or to join the “The Open Webinar” group on DingTalk.

Where. HebNU, School of Mathematical Sciences, Room 203 and in live streaming on the “The Open Webinar” group on DingTalk (see p. 2).

Organizers. Salvatore TRINGALI and Liping YUAN.

DingTalk: How to

The Open Webinar is run in live streaming on DingTalk, a software developed by the Alibaba Group. Those interested in the webinar should install the software. The installer of the desktop version (only for Mac and Windows systems) is freely available from

<https://www.dingtalk.com/en>

Before installing the desktop version, one will however need to install the DingTalk mobile app on his/her smartphone and to create a DingTalk account associated with his/her mobile number. Once this is all set up, he/she can join the “Open Webinar” group on DingTalk by launching the DingTalk app and using it to scan the following QR code:



After joining the group, speakers will be invited to schedule a test with the organizers so as to check that everything is working as expected. Please feel free to send a message to salvo.tringali@gmail.com in case you have any question.

Program ~ SS 2019-20

- Mar 12, 2020 at 8 pm: Paolo LEONETTI (Bocconi University, Italy)
Cluster points of sequences.
- Mar 19, 2020: Fei XUE (Technical University of Berlin, Germany)
to be announced...
- Mar 26, 2020: Carol T. ZAMFIRESCU (Ghent University, Belgium)
to be announced...
- Apr 2, 2020: *free slot...*

- Apr 9, 2020: Laura COSSU (University of Padua, Italy)
Idempotent factorization of matrices over integral domains: An overview.

Program ~ FW 2019-20

- Dec 19, 2019: Salvatore TRINGALI, *A generalization to number fields of Euler's theorem on the series of reciprocals of primes.*
- Dec 5, 2019: Luyao SUO, *D-bounded Distance-Regular Graphs.*
- Nov 28, 2019: Yi TIAN, *An invitation to distance regular graphs.*
- Nov 26, 2019: Henry LIU, *Diary of a wandering mathematician.*
- Nov 7, 2019: Salvatore TRINGALI, *An introduction to factorization theory and the arithmetic of power monoids, Part 2.*
- Oct 31, 2019: Fei-Fei DUAN, *An introduction to the Killing form of a Lie algebra.*
- Oct 24, 2019: Salvatore TRINGALI, *An introduction to factorization theory and the arithmetic of power monoids, Part 1.*
- Oct 17, 2019: Fei-Fei DUAN, *A gentle introduction to representations of Lie algebras.*
- Oct 10, 2019: Xiang LIU, *A generalized fractional h-Gronwall inequality and some applications.*
- Sep 26, 2019: ZuoRu ZHANG, *Unimodality Problems in Combinatorics.*
- Sep 19, 2019: Huijuan ZUO, *Local Distinguishability of Multipartite Orthogonal Quantum States.*
- Sep 12, 2019: Yanbo ZHANG, *Ramsey numbers of fans.*

Program \sim SS 2018-19

- June 27, 2019: Huili LIU, *Coalescent processes, population models, and probability-measure-valued stochastic processes.*
- June 20, 2019: MiMi ZHANG, *On half-arc-transitive bi-Cayley graphs.*
- May 30, 2019: Yanbo ZHANG, *The stories of Ramsey numbers.*
- May 9, 2019: Li-Fei WANG, *Choquet capacity and its application to probability.*
- Apr 18, 2019: Salvatore TRINGALI, *Densities in (Additive) Number Theory.*