Current Trends in Number Theory and mathematical Analysis

A graduate level minicourse in fall 2018
802651S
6 ECTS

The course is intended for a broad audience of students in mathematical sciences. It serves as an invitation to current trends in the borderline of Number Theory and Mathematical Analysis under the common theme Continued Fractions.

Organization of the course. There will be several intensive weeks with lectures and consultations. Between and after the intensive weeks, the students will work independently or in small groups on projects proposed by the visiting lecturers. The students are encouraged to work together and select a topic outside of their earlier area of expertise.

Outline of the schedule. (to be specified according to mutual agreement)
- Opening/info event in the beginning of September.
- 12h of lectures (2-3 intensive weeks) during the semester
- 12h of consultation.
- A seminar day at the end of the semester.

Visiting lecturers.
- Jaroslav Hancl (University of Ostrava)
- Bing Li (South China University of Technology)
- Wen Wu (South China University of Technology)

Topics include.
- Continued fractions: recurrence, irrationality, and transcendence
- Fourier dimension
- Salem sets

The course is organized by the UNIOGS Technology and Natural Sciences Doctoral Programme in collaboration with the Research Unit of Mathematical Sciences.

Registration and further information. Send an email to ville.suomala@oulu.fi

Welcome!