

# MATHEMATICAL INSTITUTE

OF THE SERBIAN ACADEMY OF SCIENCES AND ARTS

PROPOSAL  
FOR THE ORGANIZATION OF

## BETTY SUMMER SCHOOL 2014

**A WORD ON THE LOCAL ORGANIZER.** The Mathematical Institute, founded in 1946, is the oldest Institute of the Serbian Academy of Sciences and Arts. As such, it enjoys a time-honored tradition of research excellence. Today, it has around seventy full-time and over one hundred part-time employees. Its researchers participate in more than twenty domestic and international research projects, covering theoretical and applied aspects of mathematical logic, analysis, geometry, stochastics, mechanics, optimization, graph theory, cryptology, and preservation of cultural heritage. The Institute places particular emphasis on the introduction of young researchers into the academia, and currently employs around thirty Ph.D. students.

**THE VENUE.** We propose that the Summer School be held at the home institution of the local organizer, i.e. at the Mathematical Institute in Belgrade, Serbia. The Institute is located in the center of Belgrade, in the building of the Serbian Academy of Sciences and Arts, in Kneza Mihaila street, number 36.

The Institute has a suitable lecture room, which is used during its numerous weekly seminars. The room is equipped with a projector, screen, several whiteboards, as well as air conditioning. It is spacious and can optimally accommodate twenty-five attendees, with a maximum of thirty.

Concerning accommodation, addressed in more detail below, we would recommend that the lecturers and participants make use of the numerous affordable hotels and hostels in Belgrade. As for the meals, the Institute would organize coffee breaks between lectures, featuring appropriate refreshments and snacks.

The Institute also has several computer rooms, which the participants of the summer school could use for their individual research projects. Both cable and Wi-Fi Internet connections are available on the premises.



The lecture room at the Mathematical Institute

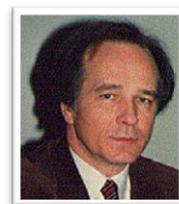
### THE LOCAL ORGANIZING TEAM.

The following eight researchers would constitute the backbone of the local organizing team:

- **Silvia Ghilezan**, Ph.D., Full Professor at the Faculty of Technical Sciences, University of Novi Sad,
- **Zoran Marković**, Ph.D., Director of the Mathematical Institute,
- **Zoran Ognjanović**, Ph.D., Research Professor at the Mathematical Institute,
- **Jovanka Pantović**, Ph.D., Full Professor at the Faculty of Technical Sciences, University of Novi Sad,
- **Jelena Ivetić**, M.Sc., Teaching Assistant at the Faculty of Technical Sciences, University of Novi Sad,
- **Petar Maksimović**, M.Sc., Research Assistant at the Mathematical Institute,
- **Svetlana Jakšić**, M.Sc., Teaching Assistant at the Faculty of Technical Sciences, University of Novi Sad,
- **Bojan Marinković**, M.Sc., Research Assistant at the Mathematical Institute.



Silvia Ghilezan



Zoran Marković



Jovanka Pantović



Zoran Ognjanović



Jelena Ivetić



Petar Maksimović



Svetlana Jakšić



Bojan Marinković

In addition, and if needed, a number of young researchers from both the Mathematical Institute and the Faculty of Technical Sciences will serve as support staff for the duration of the Summer School.

All of the eight main members of the local organizing team have already participated in the organization and administration of two events that required a considerable level of logistical and team co-ordination skills:

- **The FIT 2009 Summer School** – Foundations of Information Technologies, held in Novi Sad, Serbia, from the 14th to the 27th of June, 2009, and jointly organized by the Faculty of Technical Sciences and the Mathematical Institute. The FIT summer school, spanning two weeks, featured six twelve-hour courses attended by 42 participants, as well as a number of extra-curricular social events. The organization prior to the beginning of the summer school consisted of managing participant registration (manually, without a dedicated registration system), arranging for lecturer and participant accommodation, making sure that all of the important information and any changes in programme and organization were communicated promptly, and making appropriate bookings for social events. During the summer school, the tasks of the organizational team were to ensure the availability and operability of any and all equipment required for the lectures, address any technical problems that the participants may have during their individual research, and last, but not least, managing the coffee breaks and catering. Additional details about the summer school can be found on-line at: <http://cms.uns.ac.rs/fit2009/>.

- **The RDP 2011 Conference** – The 6th Federated Conference on Rewriting, Deduction, and Programming, held in Novi Sad, Serbia, from May 29th to June 3rd, 2011, and jointly organized by the Faculty of Technical Sciences and the Mathematical Institute. The organization of this event had a similar structure to that of the FIT summer school, but on a larger scale, given that there were sessions held in parallel, and that there were over one hundred lecturers and participants in total. Additional details about the conference can be found on-line at: <http://www.rdp2011.uns.ac.rs/>.

In both instances, the feedback that we have obtained from the lecturers and participants was strongly positive, with emphasis on the quality of the organization. We aim to bring the same high level of quality to the organization of BETTY Summer School 2014.

**TENTATIVE DATES.** The nature of the proposed venue is such that it could be readily made available for the Summer School on any dates in June, July, August or September 2014.

**TENTATIVE FORMAT.** Regarding the format of the Summer School, we would like to draw on our positive experiences with the FIT 2009 Summer School, and would like to propose a similar approach. There, six courses (twelve hours in duration each, divided into six hours of lectures (four times one-and-a-half hours) and six hours of individual research) were held over a period of twelve days. An emphasis was put on individual and team work, where students, according to their interests, formed groups consisting of three people maximum. They would tackle certain topics determined by the lecturers, topics related to the courses they wished to further explore, and the final day of the summer school was reserved for the presentation of their work. The topics themselves were designed in such a way that the students had ample time to produce the desired results in the allotted timeframe.

Possible extra-curricular activities would depend on the length of the Summer School, and could include one or more of the following:

- A city tour of Belgrade in an open top bus (~5 EUR/person).
- A tour of Kalemegdan – an old citadel at the confluence of the Danube and Sava rivers.
- A guided tour of the Belgrade city center.
- An evening cruise and dinner on the Sava river (~20 EUR/person).
- A full-day tour to Viminacium and Lepenski Vir. Viminacium is a very well-preserved archeological site of an ancient Roman town, dating back to first century A.D, while Lepenski Vir showcases the remains of one of the first Neolithic cultures in Europe, dating back to 7,000 B.C. (~50 EUR/person, all inclusive).
- A full-day tour to the monasteries and wineries of Fruška Gora and the city of Novi Sad (~50 EUR/person, all inclusive).
- A social dinner in one of Belgrade's fine dining restaurants (~40 EUR/person).

**ACCOMMODATION IN BELGRADE.** Since the Mathematical Institute is located in the very center of Belgrade, there are a number of affordable and high-quality solutions for accommodation available in its vicinity, for lecturers and participants alike. For the lecturers, we would recommend the following options:

**The Rezyme Crown Hotel**, an elegant four-star hotel situated in the central part of Belgrade, 50m away from the Mathematical Institute.

Single room: ~50-70 EUR/night  
Double room: ~70-90 EUR/night

Services: Room service, laundry, bar, restaurant, conference room, Wi-Fi Internet.

[\[Hotel Website\]](#)



**The Belgrade Art Hotel**, an exclusive four-star hotel situated in the central part of Belgrade, 100m away from the Mathematical Institute.

Single room: ~120 EUR/night  
Double room: ~135 EUR/night

Services: Room service, laundry, bar, restaurant, conference room, Wi-Fi Internet, garage.

[\[Hotel Website\]](#)



**The Palace Hotel**, a four-star hotel situated in the central part of Belgrade, 200m away from the Mathematical Institute.

Single room: ~55 EUR/night  
Double room: ~90 EUR/night

Services: Room service, laundry, two restaurants, aperitif bar, TV and internet hall, exchange office, garage.

[\[Hotel Website\]](#)



**The Majestic Hotel**, a four-star hotel situated in the central part of Belgrade, 400m away from the Mathematical Institute.

Single room: ~60 EUR/night  
Double room: ~80 EUR/night

Services: Room service, laundry, restaurant, free Wi-Fi Internet, TV, conference hall, parking

[\[Hotel Website\]](#)

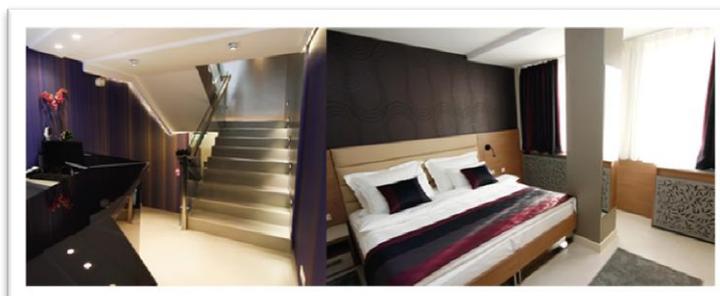


**The Srbija Garni Hotel**, a three-star hotel situated in the central part of Belgrade, 300m away from the Mathematical Institute.

Single room: ~60 EUR/night  
Double room: ~70 EUR/night

Services: Room service, laundry, bar, free WiFi Internet, garage

[\[Hotel Website\]](#)



As for the participants, apart from the previously mentioned hotels, we would also recommend the following, more budget-friendly options, all within a 1.5km radius from the Mathematical Institute:

- **The Slavija Hotel**, a two-star hotel situated at the Slavija Square. The price for a single room is around 25 EUR/night, and for a double room around 30 EUR/night. [\[Hotel Website\]](#)
- **The Crossroads Belgrade Hostel**, offering single rooms at 30 EUR/night and double rooms at 40 EUR/night. [\[Hostel Website\]](#)
- **The Hedonist Hostel**, with dorm beds starting at 12 EUR/night and double rooms at 50 EUR/night, while offering a variety of free services. [\[Hostel Website\]](#)
- **The Sweethouse Hostel**, with dorm beds starting at 9 EUR/night and single and double rooms at around 20 EUR/night. [\[Hostel Website\]](#)
- **The Lounge Hotel**, with dorm beds starting at 10 EUR/night and double rooms at around 40 EUR/night. [\[Hostel Website\]](#)
- **The Time Hostel**, with dorm beds starting from 14 EUR, single room at 29 EUR/night, and a double room at 23 EUR/night. [\[Hostel Website\]](#)
- **The HostelChe Hostel**, with dorm beds starting from 11 EUR/night, and single rooms at 30 EUR/night. [\[Hostel Website\]](#)
- **The Captain Hostel**, with single rooms at 30 EUR/night and double rooms at 40 EUR/night. [\[Hostel Website\]](#)
- **The 360° Hostel**, with dorm beds starting from 13 EUR/night, single rooms at 24 EUR/night, and double rooms around 40 EUR/night. [\[Hostel Website\]](#)
- **The Chillton 2 Hostel**, with dorm beds starting from 11 EUR/night, single rooms at around 30 EUR/night, and double rooms at around 40 EUR/night. [\[Hostel Website\]](#)
- **The In Old Shoes Hostel**, with dorm beds starting from 10 EUR/night and double rooms at around 30 EUR/night. [\[Hostel Website\]](#)

**ESTIMATED COST FOR THE MATHEMATICAL INSTITUTE.** We divide the costs into two categories – one for one-time expenses, such as appropriate materials for the Summer School (for instance, a booklet covering the lectures, a notebook, a pen, and a Summer School bag for each of the participants), and the other for daily expenses, such as catering and the use of Institute resources. We estimate this cost to be

**50 EUR per participant + 10 EUR per participant per day.**

**ESTIMATED COST FOR THE PARTICIPANTS.** Taking into account the previously stated prices of accommodation recommended for the participants, as well the average price of food in Belgrade, we estimate the daily expenses for the participants to fall in the range of

**40 – 60 EUR/day.**

**CONCLUDING REMARKS.** Finally, we would like to thank you for your consideration of the Mathematical Institute for the BETTY Summer School 2014, and hope to be given the opportunity to host it.

Sincerely,

ZORAN MARKOVIĆ,  
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Director of the Mathematical  
Institute of the Serbian Academy  
of Sciences and Arts

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Faculty of Technical Sciences  
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