



Dubna, October 2-4, 2018

# Workshop on Very Large Volume Neutrino Telescopes 2018

## *First Bulletin*

The 8<sup>th</sup> VLVvT workshop will be hosted by the Joint Institute for Nuclear Research in Dubna, Russia. The sessions will start at October 2<sup>nd</sup> morning and end at October 4<sup>th</sup> around noon.

As usual, the workshop provides a forum to discuss the latest developments in neutrino and multi-messenger astronomy together with progress on the technological and instrumentation aspects of current and future large scale detectors in water and ice. A special focus of this year's VLVvT will be on the recent evidence for the blazar TXS 0506+056 as a neutrino source and on future alert programs.

The conference webpage is <https://vlvnt2018.jinr.ru/>.

## **Scientific Program**

The present preliminary schedule includes the following sessions:

### **Plenary sessions:**

1. Overview over recent results from IceCube and ANTARES, including special talks on TXS 0506+0056
2. Phenomenology
3. Gamma Ray, UHECR and GW results
4. Status and plans of the future detectors
5. Summaries of the parallel sessions

### **Parallel sessions:**

- Detector Physics (3 sessions)
- Multi-Messenger programs (2 sessions)
- High-energy neutrino results from Antares, Baikal, IceCube (2 sessions)
- Particle physics results: oscillations, BSM physics (2 sessions)
- Combined analyses ANTARES – IceCube and beyond (1 session)
- Computational aspects (2 sessions)
- Environmental research (1 session)

As of end of July, ~90% of the plenary speakers and ~80% of the speakers of the parallel sessions have been fixed.

## Visa and invitation

To enter the Russian Federation, you need to apply for a visa at the nearest Russian consulate in your country. To start the visa formalities the following data is required:

- Copy of the passport main page (with your photo);
- Exact postal address of the institution (affiliation);
- Phone (mobile phone, if possible) numbers;
- Arrival/departure dates;
- The nearest Russian Consulate (city) in your country where the visa is going to be obtained.

You should fill all the correspondent fields on the [Registration](#) page. If you have any questions, please contact **Olga Belova** (+7 49621) 65582, email: [omatyukhina@jinr.ru](mailto:omatyukhina@jinr.ru)

- Your passport must be valid during 6 months after the date of the visa expiration.
- A few days before arrival and after departure will be added for the invitation (i.e. for the visa), to enable some flexibility in your travel schedule.
- [The nearest Russian Consulate can be found on the website](#)  
<http://www.russianconsulate.info>

Typically the most convenient way to handle the visa process is delegating it to a corresponding service company (e.g. in Germany [vhs-germany.com](http://vhs-germany.com)). When filling out the online visa form, choose “humanitarian” as visa type. Note that the Russian consulates request you to have a traveler insurance.

## Conference fee and payment

The fee is 150 € (175 \$) for participants making use of JINRs airport shuttle service to Dubna and back. For other participants it is 100 € (120 \$, 7500 Rubles). See the webpage for the bank details. Cash payment during the conference is possible but not preferred. Fees for accompanying persons will be somewhat lower. A reduced fee will be taken from persons attending the conference for only one day (both fees still to be determined)

## How to reach

You can reach Dubna via train, bus or taxi. If you come by plane, send your exact arrival and departure time as well as the name of the airport – Sheremetyevo (SVO) or Domodedovo (DME) to Olga Belova (this is also necessary to let Olga book a room for you in the hotel *Dubna*). According to the arrivals, a shuttle service to Dubna will be organized.

*Note that Sheremetyevo is much closer to Dubna than Domodedovo, and that the traffic on the way from Domodedovo around Moscow makes the shuttle transport very time consuming. Therefore the organizers prefer to pick up/ bring the participants from/to SVO .*

If you don't make use of the shuttle service, you would take the EXPRESS train from the airports to the railway/Metro station Belorussky Voksal. From there you take the metro or a taxi to the Savelovsky railway station (Metro Savelovskaya), and from there the train to Dubna. See for details the VLVNT website.

## Accommodation

All participants will be hosted in the hotel Dubna, less than 100 m away from the Volga river. The conference building is only 5 walk minutes away from the hotel. Room reservations will be made according to the precise arrival/departure time which you send to Olga Belova. Also people not making use of the shuttle service should inform Olga early enough about their arrival and departure.

The webpage of the hotel is <http://www.hotel-dubna.ru>, but it is only in Russian. It announces the following prices (including breakfast):

Single room economy:	2680 R
Single room standard:	3050 R
Single room with bathroom shared with another room:	1640 R
Double room with bathroom shared with another room	2600 R
Double room standard:	4340 R

Free WIFI is available both in the hotel and the meeting place.

## Money and credit cards

There are several cash machines in Dubna including “Sberbank” in the *Dubna* hotel. Some minimum amount of Rubles could be desirable. One can pay by credit card in most places.

## Weather

The temperatures in early October are typically 10-15° C. It could be raining.

## Language

Hotel *Dubna*: ladies at the service desk speak some English, waiters rudimentary. Menu is available in Russian and English.

Moscow: In the restaurants waiters and other services usually speak English. After several international sport events (the latest the football championship), many signs and information are both in Cyrillic and English.

## Excursions

At present, guided tours through Dubna town and selected laboratories of JINR are under consideration but will be fixed only after the science program is finalized. Pre- or After-Workshop visits to Moscow should be planned individually.

For the organizing committee

Christian Spiering  
August 2, 2018