

# **Actual Cosmology**

**Monday, February 1, 2021 - Sunday, February 7, 2021**

## **Scientific Program**

## Lectures

- Anton Baushev (BLTP JINR), "Gravitational waves: introduction" (2 lectures)
- Alexander Dolgov (Novosibirsk State Univ.), "Black holes, primordial and others" (2 lectures)
- Alexander Filippov (BLTP JINR), "A mathematical model of Eternal Cosmology"
- Dmitry Gorbunov (INR RAS), "Dark Matter Candidates: selected examples"
- Alexander Kamenshchik (Bologna U. and Landau Inst.), "Some questions of quantum cosmology" (2 lectures)
- Evgeny Kolomeitsev (BLTP JINR), "Nuclear equation of state and phase transitions, and their astrophysical implications"
- Vyacheslav Mukhanov (Munich U.), "Instantons and quantum fluctuations", "Non-singular black hole"
- Konstantin Postnov (SAI MSU), "Astrophysical constraints on primordial black holes" (2 lectures)
- Valery Rubakov (INR RAS), "Cosmological bounce and genesis: approaches and problems" (2 lectures)
- Mikhail Shaposhnikov (Ecole Polytechnique, Lausanne), "Einstein-Cartan cosmology" (2 lectures)
- Alexey Starobinsky (Landau Inst.) "The simplest viable inflationary models" (3 lectures)
- Alexey Toporensky (SAI MSU), "Introduction to cosmology" (2 lectures), "Certain aspects of teleparallel and multi dimensional gravity"