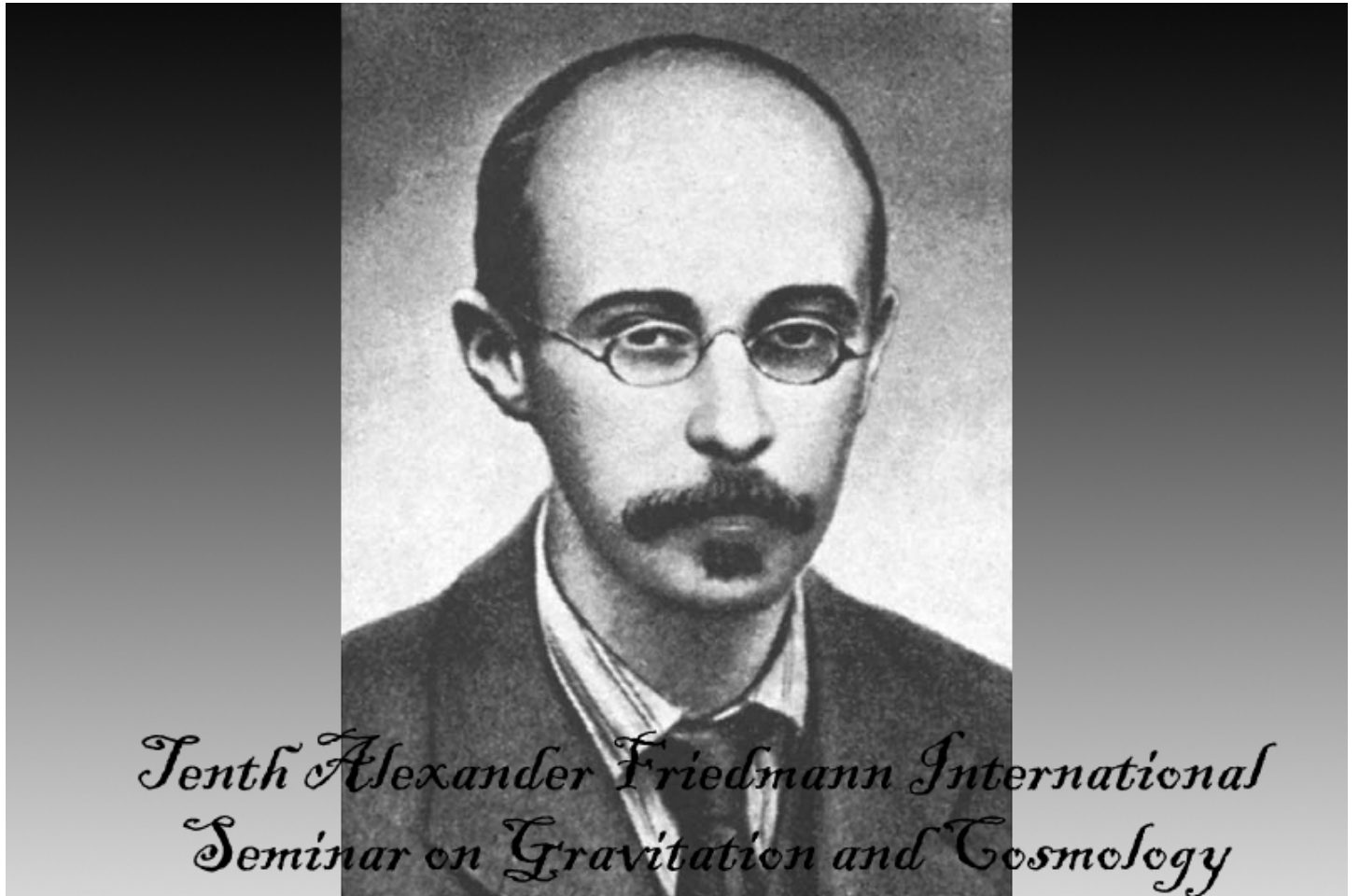


Tenth Alexander Friedmann International Seminar



the Tenth Alexander Friedmann International Seminar on Gravitation and Cosmology and Fourth Symposium on the Casimir Effect to be held from **June 23, 2019** (date of arrival) to **June 29, 2019** (date of departure) at **Saint Petersburg**, Russia. The working language of the Seminar and Symposium is **English**.

This Seminar is organized by the Institute of Physics, Nanotechnology and Telecommunications, PETER THE GREAT SAINT PETERSBURG POLYTECHNIC UNIVERSITY, where Alexander Friedmann was working as a Professor during the period from 1920 to 1925, i.e., at the time when he created the theory of expanding Universe.

The objective of the meeting is to promote contacts between scientists working in the field of Relativity, Gravitation and Cosmology and related fields. It is well known that the important role in Gravitation and Cosmology is played by the Casimir effect. To underline this, special Symposia devoted to this effect have been included in the Programs of the 7th, 8th, and 9th Friedmann Seminars. The Casimir effect is a multidisciplinary subject. Its applications extend from gravitation and cosmology to the van der Waals forces, materials properties, precise measurements and nanotechnology.

THE MAIN TOPICS TO BE DISCUSSED AT THE TENTH FRIEDMANN SEMINAR AND THE FOURTH CASIMIR SYMPOSIUM ARE THE FOLLOWING:

CLASSICAL GRAVITY

OBSERVATIONAL AND THEORETICAL COSMOLOGY

THEORETICAL ASTROPHYSICS

QUANTUM EFFECTS IN CURVED SPACE-TIME

QUANTUM GRAVITY

GRAVITATIONAL THEORY WITH EXTRA DIMENSIONS

GEOMETRICAL ASPECTS OF GRAVITATIONAL THEORY

CASIMIR EFFECT IN COSMOLOGY AND AT A LABORATORY TABLE (including materials properties, precise measurements, field-matter interaction, and applications to nanotechnology)

The Proceedings of the Tenth Friedmann Seminar and Fourth Casimir Symposium will be published as a special issue of the Journal indexed by Scopus and Web of Science. All details concerning the preparation and submission of manuscripts will be posted in due time at [the website](#).