**Summer School Program ISGCA-2021**

**5 July**

**9.30-10.00: Opening of the summer school**

10.00-11.35: Fomin Igor - Gravitational waves of the early Universe

*11.35-12.00: Coffee break*

12.00-13.35: Rudenko Valentin - Detection of cosmic GW signals of the Universe

*13.35-13.50: Coffee break*

13.50-15.25: Kassandrov Vladimir - Geometry and algebra of space-time

**6 July**

10.00-11.35: Alekseev Stanislav - Checks of extended gravity models on different space-time scales

*11.35-12.00: Coffee break*

12.00-13.35: Chervon Sergey - Modified theories of gravity with higher derivatives with respect to scalar curvature

*13.35-13.50: Coffee break*

13.50-15.25: Starobinsky Alexey - Present fundamental problems of cosmology

**7 July**

10.00-11.30: Chervon Sergey - Construction and analysis of spherically symmetric solutions in a chiral self-gravitating model

*11.35-12.00: Coffee break*

12.00-13.35: Gladyshev Vladimir - Methods for detecting gravitational waves

*13.35-13.50: Coffee break*

13.50-15.25: Rudenko Valentin - Sagnac gyroscope as a universal instrument of fundamental physics and astronomy

**8 July**

10.00-11.35: Berezin Victor - Weyl geometry and its application to cosmology

*11.35-12.00: Coffee break*

12.00-13.35: Berezin Victor - Weyl geometry and its application to cosmology

*13.35-13.50: Coffee break*

13.50-15.25: Levin Sergey - Measuring problem of identification of the cosmological distance scale from data on SNIa supernovae

**9 July**

10.00-11.35: Mishra Bivudutta - The teleparallellism and f(Q,T) gravity

*11.35-12.00: Coffee break*

12.00-13.35: Tripathy Sunil Kumar - Cosmological implications of f(Q,T) gravity

**12 July**

10.00: Fomin Igor - Deviations from General Relativity induced by modifications of gravity theory

**13 July**

12.00-13.35: Garat Alcides - New tetrads, grand unification and applications in relativistic astrophysics*13.35-13.50: Coffee break*

13.50-15.25: Tripathy Sunil Kumar - Cosmological implications of f(Q,T) gravity (Part II)

**14 July**

13.50-15.25: Romero Carlos - Revisiting Weyl's attempt at a unified field theory and the birth of gauge theories

*15.25-15.40: Coffee break*

15.40-17.15: Trell Erik - Back to the Future: True Lie Group Reappraisal of the Standard Model

**15 July**

12.00-13.35: Gutierrez-Pineres Antonio C. - Exact solutions for wormholes and rotating fluids using new perspectives of the Newman Janis Ansatz

**13.40: Summing up the results of the school**