

The Modern Physics of Compact Stars and Relativistic Gravity

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The Physics of Superdense Celestial Bodies and the Relativistic Theory of Gravitation in the Chair founded and headed by Prof. Sahakyan G.S.

The report is dedicated to a survey of studies in the physics of superdense celestial bodies and the relativistic theory of gravitation carried out by associates of the Chair of Theoretical Physics of the Yerevan State University, that was founded and headed by Prof. Sahakyan G.S.

In the first part of report the studies in the theory of degenerate superdense stellar matter and the theory of equilibrium stellar configurations comprising such a plasma are reviewed. The next part of report is a review of studies of unique manifestations of neutron stars (the pulsars, bursters and so on). The concluding part (III) of report is devoted to a survey of works on two versions of scalar-tensor theory of gravitation developed by Prof. Sahakyan and his associates.

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