

Theme "Theory of Complex Systems and Advanced Materials"

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Abstract

The report presents a seven-year plan for the development of the theme "Theory of complex systems and advanced materials" for 2024-2030. The theme is proposed by BLTP JINR for inclusion in the Topical Plan for JINR Research and International Cooperation for 2024. The report provides a brief overview of the current state of the theme and gives a brief description of the composition of the following four projects included in the proposed theme: solid state theory, nonlinear problems of many-body theory, physics of nanostructures and methods of quantum field theory in complex systems. The report presents basic scientometric information, and it describes the composition of personnel Theme and the types of collaborations.