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Extreme Light Infrastructure-Nuclear Physics (ELI-NP) Present status and Perspectives

Extreme Light Infrastructure – Nuclear Physics (ELI-NP) is a 310 Meuro project under implementation (2013-2020) in Măgurele, Romania. The aim of the project is to build a Pan-European Centre for scientific research in nuclear photonics based on two major instruments, a high-power laser system with 2×10^{15} W laser beams and a high intensity gamma beam system. ELI-NP will provide new opportunities for the study of fundamental processes that occur in light-matter interaction, will study the photonuclear reactions and will actively promote its applications for the benefit of society. A series of beyond state-of-the-art experimental setups are under construction around the two major instruments. Present status of the implementation and the scientific program of the new Centre will be presented.

Primary author: Dr ZAMFIR, Victor (National Institute Physics and Nuclear Engineering)

Presenter: Dr ZAMFIR, Victor (National Institute Physics and Nuclear Engineering)