

European Nuclear Physics Infrastructures : Current Status and Perspectives*

M. Lewitowicz¹

¹*GANIL, BP 55027, 14076 Caen, France*

Scientific questions and challenges are answered by the European nuclear science community by carrying out experimental and theoretical investigations within a rich ecosystem of research infrastructures and institutes of varying sizes, ranging from large-scale facilities to small university departments. Each area of this ecosystem has an important role to play in the delivery of nuclear science in Europe. All the sub-fields of nuclear physics exploit several large-scale and more than 15 smaller-scale infrastructures in Europe. Among them, large infrastructures from the European Strategy Forum for Research Infrastructures (ESFRI) Roadmap play a particularly important role in federating and shaping nuclear physics research and the scientific community. The talk based on the findings and recommendations of the NuPECC Long Range Plan 2024 [1] will be dedicated to the presentation of the landscape of European Research Infrastructures emphasizing its uniqueness, synergies among the facilities, and their further evolution.

[1] NuPECC Long Range Plan 2024 for European Nuclear Physics, arXiv:2503.15575 (nucl-ex).

*This presentation is based on a material provided by numerous colleagues from European nuclear physics infrastructures and members of the NuPECC Long Range Plan 2024 Thematic Working Groups