

Deliverables related to the project:

- P.-A. Söderström, A. Kuşoğlu, *Nuclear level densities and photon strength functions at ELI-NP/IFIN-HH*, submitted to NSP2025 proceedings
- P.-A. Söderström, et al., *Statistical properties and photon strength functions of the $^{112,114}\text{Sn}$ isotopes below the neutron separation threshold*, submitted to Phys. Rev. C
- P.-A. Söderström, et al., *Neutron and gamma-ray measurements around the particle separation threshold at the Extreme Light Infrastructure - Nuclear Physics*, submitted to Acta Phys. Pol. B

Other deliverables (patents, books etc.).

- P.-A. Söderström, et al., *Experimental feasibility of high-energy nuclear level density measurements by neutron evaporation into the continuum of ^{140}Ce* , proposal for the IFIN-HH PAC 2025
- P.-A. Söderström, et al., *Study of nuclear level density of ^{140}Ce* , proposal for the IFIN-HH PAC 2024
- W. Korten, et al., *Precision measurement of the double-gamma decay in ^{72}Ge* , proposal for the IFIN-HH PAC 2024
- M. Brezėanu, et al., *Influence of different level-density models on the extrapolation in the Oslo method*, submitted to ELI-NP Annual Report 2022-2024
- P.-A. Söderström, et al., *Photon strength functions of the $^{112,114}\text{Sn}$ isotopes below the neutron separation threshold*, submitted to ELI-NP Annual Report 2022-2024
- P.-A. Söderström, et al., *Nuclear level density of ^{128}Te with complementary probes and methods*, submitted to ELI-NP Annual Report 2022-2024

In addition the team has partially contributed resources or manpower to several publications within collaborations

- A. Gavrilăscu, et al. *In-beam commissioning of the Grand Raiden spectrometer coupled with the silicon detector array SAKRA at RCNP*, Phys. Scr., in print.
- K. Sakanashi, et al. *Precise measurements of the γ -decay probability of the Hoyle state with a new triple coincidence-detection method*, Phys. Lett. B, 870:139893, 2025
- A. Giaz, et al. *Probing the Isospin Mixing in the ^{72}Kr Compound Nucleus via GDR γ Decays* Phys. Lett. B, 868:139653, 2025.
- P.-A. Söderström, et al. *Nuclear level density of ^{128}Te from $(p,p'\gamma)$ scattering and complementary photonuclear data*, Phys. Scr., 100:075301, 2025.
- S-R. Ban, et al. *Hardware Simulation of Particle Identification Algorithms for Silicon Detectors* UPB Sci. Bull. A, 87(3):165, 2025.
- P.-A. Söderström, et al., *ELIGANT-TN – ELI Gamma Above Neutron Threshold: The Thermal Neutron setup*, submitted to NIM A
- S. Aogaki, et al., *DELILA: A Scalable Data Acquisition System for Multi-Detector Nuclear Physics Experiments at ELI-NP*, IEEE Trans. Nucl. Sci. in print
- D. L. Balabanski, A. Kuşoğlu, P.-A. Söderström, *While waiting for γ beams at ELI-NP: First results from ELIGANT and ELIFANT experiments*, EPJ Web Conf., 342:01002, 2025
- C. A. Ur, et al., *Extreme Light Infrastructure - Nuclear Physics: First results*, Eur. Phys. J. A, 61:248, 2025.
- S. Aogaki, and S. Niculae, *Implementation and development of a DAQ system DELILA at ELI-NP*, EPJ Web Conf., 337:01156, 2025
- J.S. Heines et al., *New Lifetime Measurements in the Ruthenium Chain: Investigating the Evolution of Triaxiality*, Acta Phys. Pol. B Proc. Suppl., 18:2-A22, 2025.
- O. Wieland et al., *Search for Extra Yield in Hot Ni Isotopes Below the Giant Dipole Resonance*, Acta Phys. Pol. B Proc. Suppl., 18:2-A33, 2025.