



Experimental Nuclear Physics

Position description

The field of "Experimental Nuclear Physics" involves the development of advanced research in the study of nuclear reactions and ion beam-matter interactions, with a primary focus on the development and application of Ion Beam Analysis (IBA) methods. Research activities include the design and execution of experiments at low-energy accelerator infrastructures, as well as the development, application, and optimization of analytical techniques. It also includes the study and measurement of nuclear reaction cross-sections, stopping power, and other fundamental nuclear data necessary for the reliable application of IBA techniques.

The selected candidate is expected to contribute to the development of experimental setups, detector systems, and data acquisition systems, as well as to the advanced processing and interpretation of experimental data using computer simulations, specialized software, and modern statistical methods. The Researcher will actively participate in the operation and scientific utilization of the Institute's accelerator and analytical infrastructures, the design and attraction of national and international research projects, and the development of collaborations with research groups and major European infrastructures. Experience in accelerator operation, charged particle and gamma-ray detector instrumentation, the development of experimental setups, and the use of computational simulation and data analysis tools will be positively evaluated.

Level of Position: Assistant Professor or Research (C level researcher). (In exceptional cases of candidates B level (Associate) may be discussed before opening the position).