

Nuclear Astrophysics research at IFIN-HH

Livius Trache¹

¹ *IFIN-HH, Bucharest-Magurele, Romania*

I will use the title as a pretext to present results of doing nuclear astrophysics research in IFIN-HH Bucharest-Magurele in the last 2-3 years. There is progress on the two basic types of experimental activities:

– Direct measurements at low and very low energies with beams from the local 3 MV tandetron accelerator. We proved it competitive for measurements down into the Gamow window of reactions induced by light ions and alphas. Extra sensitivity is provided by the ultra-low background laboratory in a salt mine about 120 km away.

– Indirect measurements done with beams at international facilities with radioactive beams, currently Texas A&M university and RIBF at RIKEN. My students will present details in some separate contributions. With help from colleagues, I will present some theory advances, too.