

## Cognitive and socio-economic impact

**As a cognitive impact**, the obtained scientific results are significant for guiding the research activity of the experimental groups working in the field of proton rich nuclei at the Tandem laboratory, Magurele-Romania, GANIL (Grand Accélérateur National d'Ions Lourds), Caen-France, Royal Institute of Technology (KTH), Stockholm-Sweden and Ciclotron laboratory, University of Jyväskylä-Finland. Let us mention the long term cooperation we have with researchers of these groups.

The obtained results in 2025 were published in scientific journals (see the list of papers) and disseminated through participation in

### Scientific conferences

1. A. Dumitrescu and D.S. Delion, *Particle emission in a self-consistent field*, European Nuclear Physics Conference, 22–26 September 2025, Caen, France, oral presentation [https://indico.in2p3.fr/event/30430/contributions/157658/attachments/95980/147244/Presentation\\_54\\_Dumitrescu.pdf](https://indico.in2p3.fr/event/30430/contributions/157658/attachments/95980/147244/Presentation_54_Dumitrescu.pdf)
2. S.A. Pencu and D.S. Delion, *Study of Beta Delayed Proton Emissions in  $^{21}\text{Mg}$* , European Nuclear Physics Conference, 22–26 September 2025, Caen, France, poster <https://indico.in2p3.fr/event/30430/contributions/160858/>

### Scientific seminars

1. S.A. Pencu, *Study of Beta Delayed Proton Emissions in  $^{21}\text{Mg}$* , IFIN-HH Seminar, Department of Theoretical Physics, 21 October 2025

**The socio-economic impact** consists in the educational output of this project, namely one of the participants: Alexandru Pencu, is PhD student under the supervision of the project director. The project director is also giving lectures on *Emission process from nuclei* at the Doctoral School of Physics Department of the Bucharest University.