TASCA 23
April 25 - 27, 2023
20th Workshop on Recoil Separator for Superheavy Element Chemistry & Physics

EURASIS – *towards a secure EUropean RAre Stable Isotope Supply*

Dieter Ackermann

GANIL, CEA/DRF-CNRS/IN2P3, 14076 Caen, France

The shortage of **E**nriched rare **S**table **I**sotopes (**ESI**) supply, severely aggravated by the Russian aggression against Ukraine and its consequences, calls for a solution with the aim to warrant a secure provision of European research institutions with this basic material without which essential fundamental research activities will come to a halt when the yet limited reserves will be consumed. The situation is affecting not only the nuclear physics community and a concerted action plan is urgently needed, in synergy with all disciplines and communities concerned, like e.g. the community of medical research and application, the Mössbauer spectroscopy and neutrinoless double-β decay communities. The international character of fundamental research and the respective scientific collaborations demands for an international effort to attack this global problem.
For some production schemes, like the electromagnetic isotope separation (EMIS), hitherto Russia had a monopoly. Measures to mitigate this dilemma could include the implementation of an EMIS facility in Europe, ideally embedded in an international network.
In our view this is a burning issue and finding a solution should and will be a prominent topic of the NuPECC LRP. We pursue this initiative under the acronym **EURASIS** (***EU****ropean* ***RA****re* ***S****table* ***I****sotope* ***S****upply*). Its aim is to define a European strategy to warrant ESI supply for European research in Nuclear Physics and beyond.