

Experimental study of nuclide production cross sections via the $^{nat}\text{Pb}(p,X)$ reaction with GeV-energy proton incidence

Accelerator Driven System(ADS): Transmutation of minor-actinides

Evaluation of residual γ -ray dose rate

-> Nuclide production cross section

Measurement of the cross section at **J-PARC** by an **activation technique** with GeV-range protons

Here, we focus on the $^{nat}\text{Pb}(p,X)$ reaction.

As a result of our measurement, we obtained **259 nuclide production cross sections.**

We present some of our results.



*1 RCS: Rapid-Cycling Synchrotron

*2 MLF: Materials and Life Science Experimental Facility

*3 MR: Main Ring

