Contribution ID: **44** Type: **not specified**

Beta-Delayed Neutron Branching Ratios calculated by proton-neutron QRPA and statistical model

Wednesday, December 11, 2024 4:35 PM (25 minutes)

We recently carried out a systematic calculation for beta decay half-lives within proton-neutron QRPA. Our formalism adopted a Gogny type forces for both isospin T=0 and T=1 pairing channels.
This ensures us a reliable for beta-decay calculations within the QRPA. Delayed-neutron branching ratios are also estimated by a Hauser-Feshbach statistical model with beta-strength functions calculated by the QRPA. We will discuss the results comparing with
those of different models.

Presenter: Dr MINATO, Futoshi (Kyushu University)

Session Classification: Nuclear structure-reactions-interaction