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Study of shell evolution towards to 78Ni by in-beam gamma-ray spectroscopy

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We will propose an experiment for coming MINOS campaign at RIBF to investigate proton shell evolution towards to 78Ni by means of in-beam gamma-ray spectroscopy. The goal of the experiment is to characterize a proton f7/2 hole states in the Cu isotopes populated by one-proton knockout reaction: (p,2p). This will allow us to understand a migration of shell structure induced by the tensor part of the nucleon-nucleon interaction. In the workshop, a physics motivation and feasibility for MINOS@RIBF campaign will be discussed.

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