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Muon spectroscopy with rare nuclei via transfer reaction in solid hydrogen

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Muonic atom spectroscopy is a unique tool to determine the nuclear charge distribution and has successfully been used for many years to measure stable isotopes. Several years ago the cold hydrogen film method was proposed to expand muonic atom spectroscopy by utilizing nuclear beams, including, in the future, radioactive isotope beams. Muonic radioactive atoms would be produced by utilizing the transfer reaction in hydrogen/deuterium solid films for measuring muonic X-rays. An overview of the results of our experiment with stable isotopes at RIKEN-RAL and future prospects using radioactive materials will be presented.

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