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Recent results using VAMOS spectrometer

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In addition to new facilities producing more intense radioactive ion beams, the resurgence of “classical” techniques using stable beams with state of art detection systems offer hope towards uncovering new signatures of both single particle and collective motion. Transfer and fission reactions are two such processes that facilitate studies of the evolution of nuclear structure as a function of isospin. In this talk recent work done at GANIL exploiting such “old” reactions and selective “new” tools will be presented. Spectroscopy of neutron rich nuclei studied with high intensity stable beams and radioactive re-accelerated beams, using the highly selective and large acceptance VAMOS spectrometer coupled with the efficient EXOGAM gamma-array and/or charged particle arrays MUST2 and TIARA will be exemplified.

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