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Direct reactions studies using the MUST2 array

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Direct reactions such as transfer reactions constitute a powerful tool to investigate the structure of nuclei. Widely studied during the seventies with stable beams, they brought a large part of our present knowledge on the structure of stable nuclei. With the advent of radioactive ion beams, new methodologies and instrumentation has been implemented for the experimental study of these reactions in inverse kinematics. MUST2 is an example of such an array based on Silicon technology. After a brief description of MUST2, I will present a selection of experimental studies performed with this device, including results from the recent MUST2@RIKEN campaign. I will then conclude by mentioning the main guidelines that are being followed to design a next-generation Silicon-based array, called GASPARD, for optimal study of direct reactions at SPIRAL2 and elsewhere.

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