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Studies and results of electrostatic devices for the SPIRAL2-DESIR project at GANIL Caen France

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The SPIRAL2 installation at GANIL, Caen France is already in operation since 2019 and produce a large number of new radioactive ion beams at high intensities. In 2027, the DESIR facility will receive beams from the upgraded SPIRAL1 facility of GANIL (stable beam and target fragmentation) and from the S3 Low Energy Branch (fusion-evaporation and deep-inelastic reactions). The construction of the DESIR building will start in 2023. Many parts of the process is already build and stored on site at GANIL. The DESIR facility require some long transfer beam lines and distribution lines up to experimental set-ups. These lines must be very robust and will transport mono-charged radioactive ion beams up to 60keV. All along the design of the beam lines since 2012, various electrostatic systems have been design and care-fully reviewed like quadrupoles, steerers and deflectors. This paper will focus on the design of different deflector developped for the DESIR project.

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Footnotes

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