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Beam optic along the transfer RIB lines to the DESIR facility at GANIL-SPIRAL2

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The new ISOL facility SPIRAL2 is currently being built at GANIL, Caen France. SPIRAL2 will produce a large number of new radioactive ion beams (RIB) at high intensities. In 2019, the DESIR facility will receive beams from the upgraded SPIRAL1 facility of GANIL (stable beam and target fragmentation), from the S3 Low Energy Branch (fusion-evaporation and deep-inelastic reactions). In order to deliver the RIB to the experimental set-ups installed in the DESIR hall, 110 meters of beam line are studied since 2013. This paper will focus on the recent studies which have been done on these transfer lines: beam optics and errors calculations, quadrupoles, diagnostics and mechanical designs.

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