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Design of coaxial RF line for VITO beamline

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The design and simulation of an rf-atom/ion beam interaction region will be presented. The development of this region is needed to perform rf spectroscopy of short-lived radioactive atom or ion beams. In order to obtain the largest possible signal strength from rf spectroscopy, the field strength must be uniform across the atom/ion beam. In order to obtain this uniformity a vacuum spaced stripline geometry was employed. Detailed simulations of the transition from coaxial geometry to stripline geometry will be presented along with the optimised design of the rf interaction region.

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