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Improving of the injection line transmission through the SPC2 cyclotron at iThemba LABS

iThemba LABS has recently engaged in a journey of producing metal ion beams to use for nuclear physics experiments. In order to successfully deliver these beams, it is important that the transmission of the injection beamline through the injector cyclotron (SPC2) is of high quality. In order to achieve this, efforts are being made to improve the transmission. One of the concepts being investigated is how adding a second buncher, operating in second harmonic will improve the transmission. This is done using different simulation programs. In this talk preliminary results of the simulations will be presented.

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