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Beam transfer lines design study for 30-40 mA proton beam for Boron Neutron Capture Therapy facility

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The new generation BNCT facilities require the management of high intensity proton beams (tens of mA). As a matter of fact, the total beam power can easily overcome hundreds of kW. Consequently, it is not only important to keep under control the losses but also to manipulate the beam distribution to decrease the power deposited along the accelerator and on the target. In this paper we will present the strategies implemented and the design studies to achieve this result.

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Footnotes

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Yes

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