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## **Dosimetric comparison between proton and carbon ion beams for oncological treatments using Monte Carlo methods**

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Radiotherapy has been estimated as being beneficial to about 50% of cancer patients. Conventional radiotherapy has inherent limitations due to how photons interact with matter. Particle therapy has a more advantageous dose distribution but its harder to plan. Both protons and carbon ions are currently used to treat patients. Each of this therapy methods has its advantages and disadvantages. The goal of this project is to make a dosimetric comparison between proton and carbon ion beams for oncological treatments.

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