An Improved Monte Carlo (MC) Dose Simulation for Charged Particle Cancer and Denoising Proton Therapy Monte Carlo (MC) Dose Distributions in Multiple Tumor Sites Therapy: A Comparative Neural Networks Architecture Study

Alireza Heidari[1,2,3,4*]

[1]California South University, 14731 Comet St. Irvine, CA 92604, USA
[2]BioSpectroscopy Core Research Laboratory, California South University, 14731 Comet St. Irvine, CA 92604, USA
[3]Cancer Research Institute (CRI), California South University, 14731 Comet St. Irvine, CA 92604, USA
[4]American International Standards Institute, Irvine, CA 3800, USA

*Correspondence: Faculty of Chemistry. Alireza Heidari, California South University, 14731 Comet St. Irvine, CA 92604, USA

Abstract

For the (examinations to check whether something should be possible) of (connected with space or existing in space) fractionated hadron treatment early models of the hardware for hadron minibeams molding and watching/overseeing have been planned, fabricated and tried.

Keywords

Hadrontherapy, Radiotherapy, Cancer, Treatment, Cure, Tumors, Oncology, Particle Therapy

Letter

For the (examinations to check whether something should be possible) of (connected with space or existing in space) fractionated hadron treatment early models of the hardware for hadron minibeams molding and watching/overseeing have been planned, fabricated and tried. The collimators configuration depended on Monte Carlo trials (that show up or feel near the genuine article). Cut and network collimators were utilized for minibeams molding. Gafchromic films, micropixel finders Timepix in a mix of two things/gas-electric vehicle as well as metal mode were tried for estimating hadrons strength conveyance in minibeams. A general bar profile was estimated by the metal microstrip identifier. The exhibition of a smaller than normal shafts molding and watching/overseeing hardware was showed/portrayed investigating low energy protons at the KINR (cooperating) generator as well as high energy carbon and oxygen particle radiates at HIT (Heidelberg). The outcomes show solid execution of the tried hardware for molding and imaging hadron small scale bar structures [1-30].

Acknowledgement

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