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This brief provides an in-depth overview of the physics of hadron therapy, ranging from the history to the latest contributions to the subject. It covers the mechanisms of protons and carbon ions at the molecular level (DNA breaks and proteins 53BP1 and RPA), the physics and mathematics of accelerators (Cyclotron and Synchrotron), microdosimetry measurements (with new results so far achieved), and Monte Carlo simulations in hadron therapy using FLUKA (CERN) and MCHIT (FIAS) software.

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using Geant4's physics processes to simulate particle-matter interactions and track any subsequent secondary emissions. To demonstrate BDSIM's applicability to hadron therapy machines,

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we have chosen to simulate Gantry 2, a proton therapy beamline that forms part of the PROSCAN project at PSI [3]. Depending on treatment requirements, the gantry

Hadron Therapy Machine Simulations Using BDSIM

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FLUKA: Simulations for Hadron Therapy FLUKA is a particle transport and interaction simulation code, originally developed by CERN and INFN for particle physics, which finds applications in a wide range of other domains including medical.

FLUKA: Simulations for Hadron Therapy | Knowledge Transfer

Not Available adshelp[at]cfa.harvard.edu The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement NNX16AC86A

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This code is widely employed at CERN [1, 2, 9, 10] to study interactions in high-energy physics. The simulations and the results obtained are compared with experimental data, to analyze the limitations of physical models. This approach is valuable in hadron therapy. One problem is the computational time needed to implement the Monte Carlo method [17].

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