

The FLASHMOD project –G4-DNA MC simulations

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The goal of the FLASHMOD project is to develop an end-to-end environment for a proton beam in VHDR conditions at ARRONAX facility.

In this work we present our Geant4-DNA Monte Carlo simulation results.

A beta version of Geant4-DNA (under development) has been tested to model water radiolysis species at different dose rates with and without scavengers (N₂O and Argon).

Obtained G-values for H₂O₂ have been compared to the experimental data for conventional irradiation and for FLASH mode.

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