



IGFAE
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Monitoring proton therapy treatments with in-beam positron emission tomography or with a multislat prompt-gamma camera: simulation results

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Proton therapy (PT) treatments still offer space for improvement. This is because the positioning of the Bragg peak may still suffer from several dose disturbing mechanisms such as patient mispositioning and/or anatomical modifications occurring in the course of fractionated PT. Some examples will be covered, together with two techniques aiming each at the verification of each PT treatment: in-beam positron emission tomography and prompt gamma imaging, here simulated in the case of an orthogonal prompt gamma ray detection via a multi-slat collimator.

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