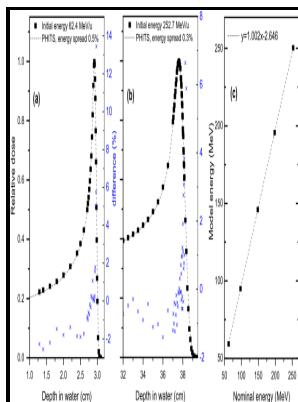


Study of the secondary charged particles produced by a neutron-therapy type beam in a tissue-equivalent phantom

University of Birmingham - Comparative study of the effects of different radiation qualities on normal human breast cells



Description: -

-study of the secondary charged particles produced by a neutron-therapy type beam in a tissue-equivalent phantom

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For irradiations with low-energy monoenergetic neutrons at PTB the same containers but a modified rotator was used, on which three samples were placed in a row at distances of 50, 70 and 100 mm from the neutron source. It is therefore a type of secondary particle therapy.

Enhancement Evaluation of Energy Deposition and Secondary Particle Production in Gold Nanoparticle Aided Tumor Using Proton Therapy

Fundamental Quantities And Units For Ionizing Radiation Revised ICRU-report No 85. This causes a very slight extension of the iso-effective dose beyond the physical dose. The dose due to the secondary neutrons and photons was estimated with Monte Carlo simulation for three existing proton therapy facilities by Agosteo et al.

Particle therapy

Both experimental and calculation methods have to be validated to gain confidence. Two-dimensional neutron ambient dose equivalent maps have been calculated in order to establish possible shielding approaches reducing the contribution of scattered neutrons at the measurement positions as much as possible. Gold nanoparticles as radiation sensitizers in cancer therapy.

Feasibility study on the use of 3D silicon microdosimeter detectors for microdosimetric analysis in boron neutron capture therapy

The source activity was 325 GBq with an estimated neutron emission rate of 2×10^7 neutrons in 4π .

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