IUPESM 2025
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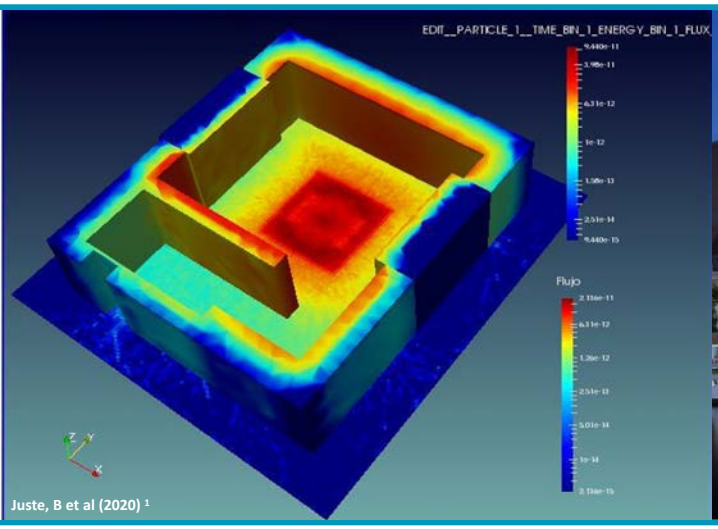
World Congress on Medical Physics and Biomedical Engineering

Workshop on Shielding of X-ray Radiotherapy Rooms

Thursday 2nd October



Juste, B et al (2020) [1]

Join the shielding workshop during the Medical Physics World Congress!

This workshop provides an introduction to radiation shielding design calculations for external beam radiotherapy facilities. It covers fundamental principles and practical approaches for designing shielding for medical linear accelerators, including neutron shielding considerations for high-energy linacs. It also summarises requirements for kV treatment rooms and CT simulation rooms. In addition, it outlines the overall process from initial design development to final shielding evaluation. The workshop provides essential information for those involved in radiotherapy facility planning. The faculty includes experience from USA, UK, Canada, South Africa and Australia.

Don't miss this unique learning opportunity!

	Topics	Time	Speakers
1	***Basic data, calculations, designs and materials for MV rooms***	11am-12:30pm	Melissa Martin, David Thwaites, Wayne Beckham
2	***Mazes and doors for low and high energy MV rooms***	2pm-3:30pm	Chris Trauernicht, Robin Hill
3	***a) Non-standard MV units and kV rooms*** ***b) Shielding design development process*** ***c) Radiation shielding design evaluation (Survey)***	4pm-5:30pm	Melissa Martin, Robin Hill, Wayne Beckham

[1] Juste, B et al, 'Monte Carlo Code Application to the Study of 3D Neutrons Distribution in a Radiotherapy Bunker and Validation with Experimental Measurements' (2020) 954, *Nuclear instruments & methods in physics research. Section A.*