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E Kasanda et al 2020 Phys. Med. Biol. 65 245047

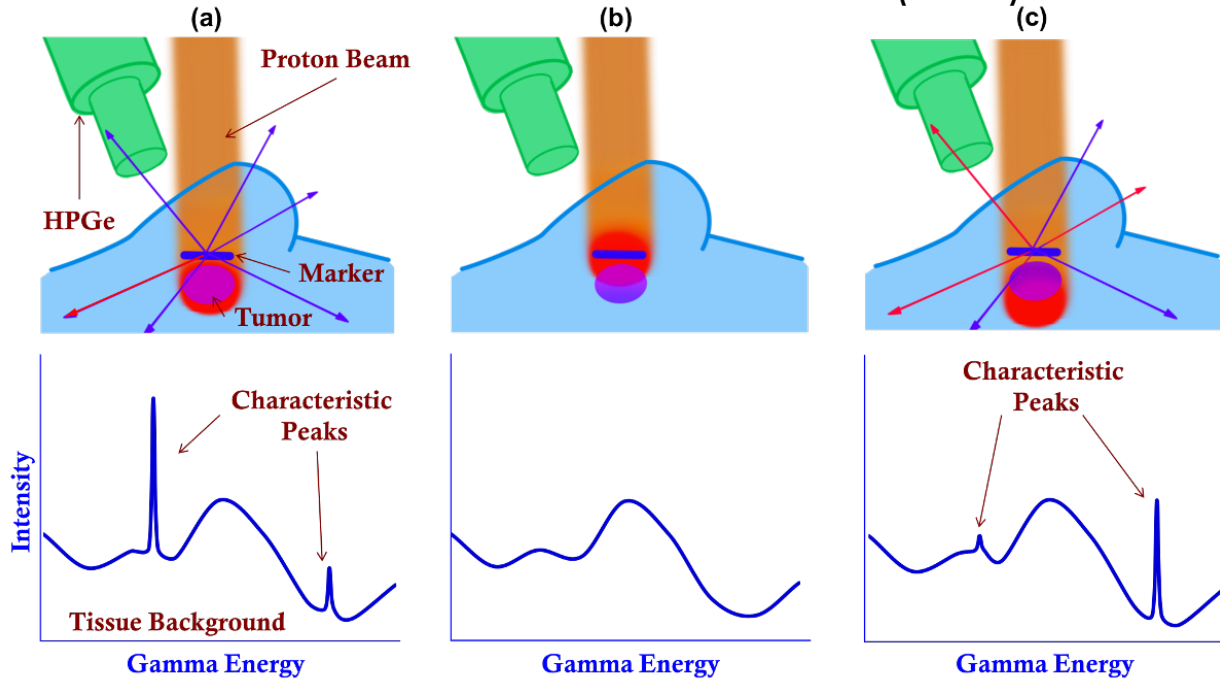
C Burbadge et al 2021 Phys. Med. Biol. 66 025005

IN-VIVO RANGE VERIFICATION FOR PROTON THERAPY USING A TUMOUR MARKER (HTM)

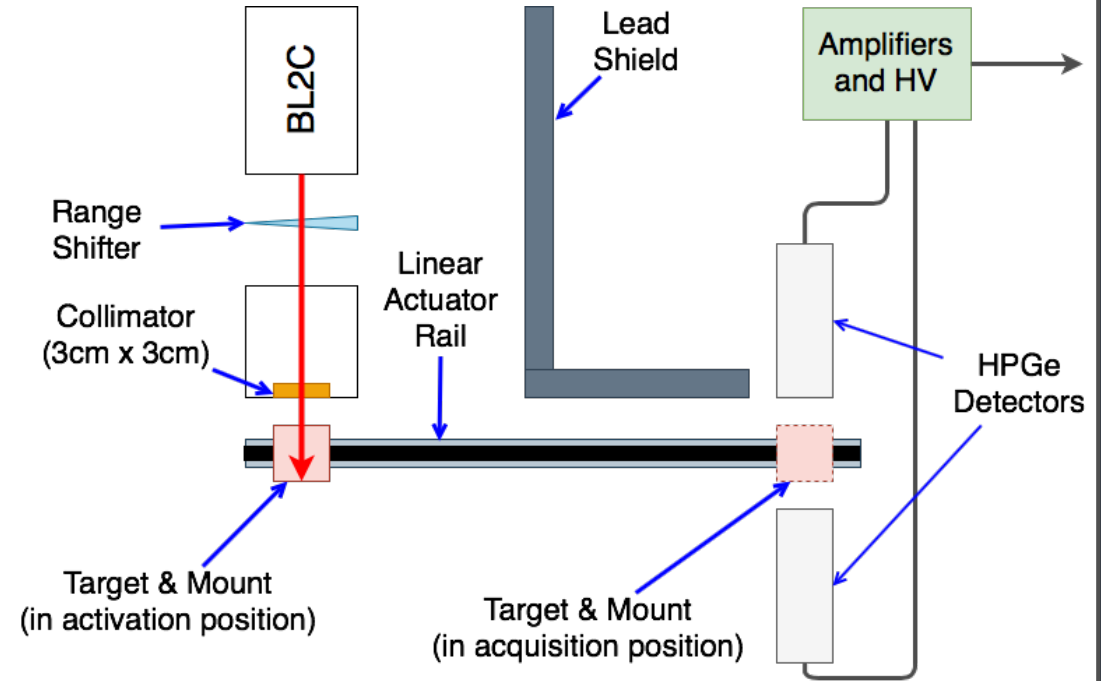
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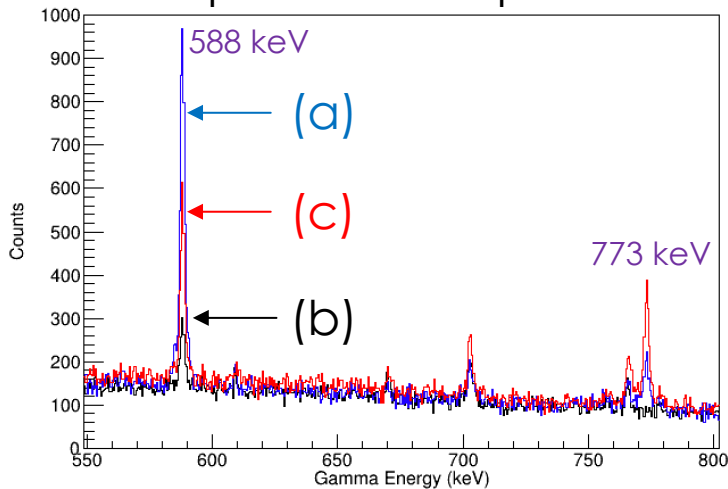
How does a Hadron Tumour Marker (HTM) work?



Experimental Setup at PIF/NIF



Experimental Spectra



Incident Proton Beam Energy (Projected remaining Range in PMMA)

- (a) 13.7 MeV (1.88 mm)
- (b) 4.8 MeV (0.293 mm)
- (c) 17.2 MeV (2.83 mm)

