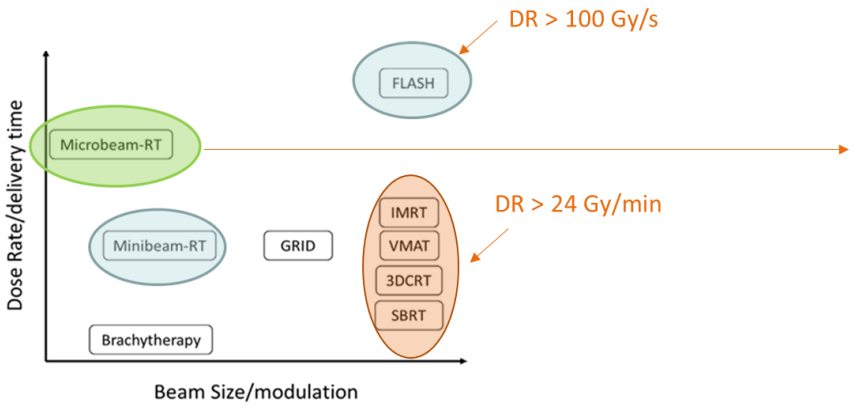
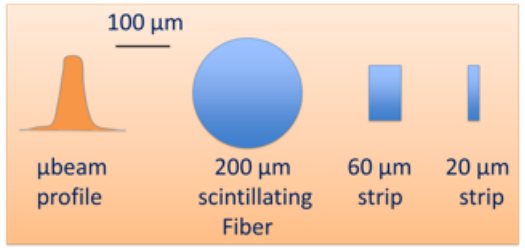
Characterization study of 20 µm and 60 µm wide BC-408 microstrips during microbeam X-ray irradiation

F. Thevenet, J. Esteves, J-P. O Bustillo, E. Li, M. J. Lerch, J-F. Adam and P. Pittet

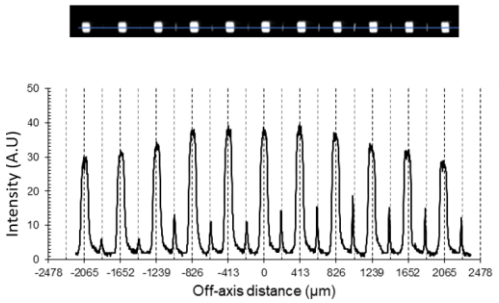


Adapted from Griffin *et al.*, The British Journal of Radiology, vol. 93 (1113), 2020

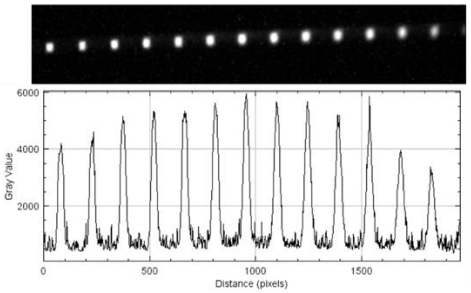
Microbeam-RT



BC-408 20µm and 60µm wide strips under UV-excitation



but 20µm wide strips did not respond to X-ray irradiation



Thevenet *et al.*, Sci. Reports vol. 15(1), 2025

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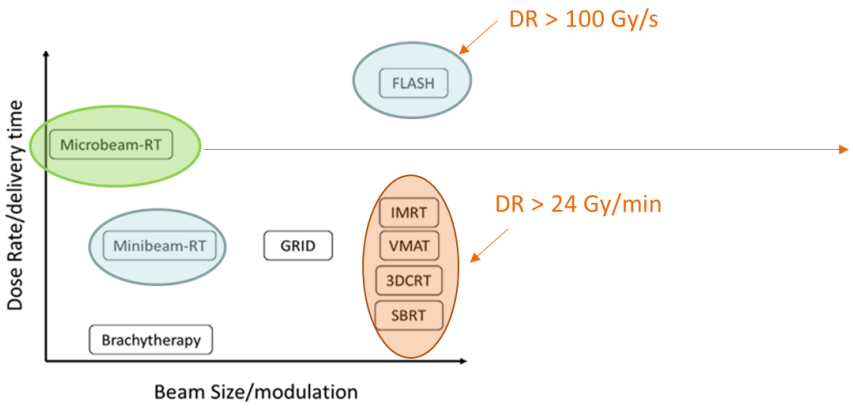

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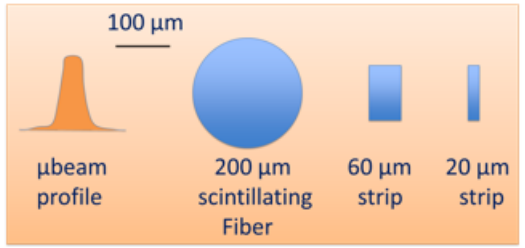

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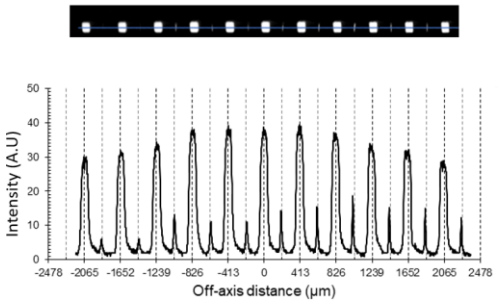

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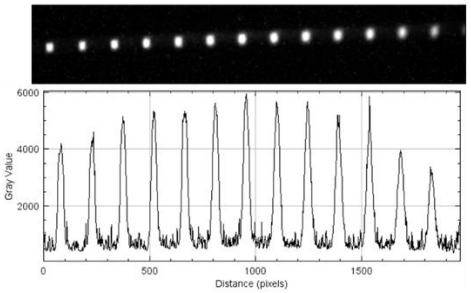

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Modification of the readout module

- Clear strip array → fiber bundle
- CMOS camera → PMT

Characterization study @ ANSTO/ IMBL