

## **Radiation metrology and applications within MeASURE at the University of Cape Town**

We showcase recent radiation-based research associated with the Metrological and Applied Sciences University Research Unit (MeASURE) within the Department of Physics at the University of Cape Town. Activities which feature proton, neutron and gamma radiation include the development of detectors and instrumentation, advanced computation and stochastic modelling, and novel applications of measurement techniques. Within this deconstructed presentation weaved between the contributed talks, we illustrate how these projects form part of a coherent research programme and seed a workshop-style discussion around the ways in which thematic collaboration can promote research impact within nuclear science and technology. The newly established UCT Proton Therapy Initiative is also introduced.

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