



# **Nuclear Physics and Gamma-ray Sources for Nuclear Security and Nonproliferation: Proceedings of the International Symposium**

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# Nuclear Physics and Gamma-ray Sources for Nuclear Security and Nonproliferation: Proceedings of the International Symposium

## Nuclear Physics and Gamma-ray Sources for Nuclear Security and Nonproliferation: Proceedings of the International Symposium

Nuclear nonproliferation is a critical global issue. A key technological challenge to ensuring nuclear nonproliferation and security is the detection of long-lived radioisotopes and fissionable nuclides in a non-destructive manner. This technological challenge requires new methods for detecting relevant nuclides and the development of new quantum-beam sources. For example, one new method that has been proposed and studied is nuclear resonance fluorescence with energy-tunable, monochromatic gamma-rays generated by Compton scattering of laser photons with electrons. The development of new methods requires the help of researchers from a wide range of fields, such as nuclear physics, accelerator physics, laser physics, etc. Furthermore, any new method must be compatible with the requirements of administrators and nuclear-material inspectors.

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