



Using X-ray optics for nuclear physics applications

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Abstract: Direct measurement of plutonium and uranium is a highly desirable non-destructive analysis method for use in reprocessing fuel environments. The high background and intense radiation from spent fuel make direct measurements difficult to implement since the relatively low activity of uranium and plutonium are masked by the high activity from fission products. Exploiting grazing incidence optics to selectively reflect K_{α} and K_{β} fluorescence of Special Nuclear Materials together into a high-purity position-sensitive germanium detector is a method to overcome this problem.

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On-
line



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