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Current Status of high-Z detector materials

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High-Z semiconductor materials have considerable potential for use as room temperature X-ray and gamma ray detectors, combining good spectral resolution with high quantum efficiency. For many years germanium has been the only readily available high-Z detector material, however recent improvements in compound semiconductor materials such as CZT means that room temperature high-Z detectors are now becoming commercially available. In this talk I will review the current and future status of high-Z detector materials, with a particular emphasis on the requirements for synchrotron instrumentation.

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