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Diamonds for Beam Instrumentation

Diamond is perhaps the most versatile, efficient and radiation tolerant material available for use in beam detectors with a correspondingly wide range of applications in beam instrumentation. Numerous practical applications have demonstrated and exploited the sensitivity of diamond to charged particles, photons and neutrons. A description of a generic diamond detector is given. The interaction of the CVD diamond detector material with protons, electrons, photons and neutrons is presented, together with several application examples.

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