

Post-Lecture #11: Detection of Radiation

II

1. Where might you find the following detectors in our hospital?

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|-------------|------------|----------------------|
| • Germanium | • Diode | • Radiochromic Film |
| • CZT | • TLD/OSLD | • GM Counter |
| • FPD | • NaI(Tl) | • Ionization Chamber |

2. What is the physics difference between scintillator detectors and semiconductor detectors?

3. How do the physics of semiconductor detectors differ from gaseous detectors?

4. What is the point of a PMT?

5. How are photodiodes used with scintillators, and how does this differ from conventional therapy diodes?